FINAL

Second Five-Year Review Report

CTS Printex Site
1905, 1911, 1921, and 1931 Plymouth Street &
1904, 1940, and 1950 Colony Street
Mountain View, Santa Clara County, California

Prepared by
California Regional Water Quality Control Board
San Francisco Bay Region

September 2005

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List of Acronyms

ARAR	Applicable or Relevant and Appropriate Requirements
bgs	below ground surface
BPHE	Baseline Public Health Evaluation
CDHS	California Department of Health Services
c/t-1,2-DCE	cis & trans-1,2-dichloroethene
COC	Chemical of Concern
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
EPA	United States Environmental Protection Agency
ESL	Environmental Screening Level (RWQCB)
FRAP	Final Remedial Action Plan
MCL	Maximum Contaminant Level
µg/L	microgram per liter
$\mu g/m^3$	microgram per cubic meter [of air]
NPL	National Priorities List
PHA	Public Health Assessment
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RWQCB	California Regional Water Quality Control Board, San Francisco Bay Region
SCR	Site Cleanup Requirements
SCVWD	Santa Clara Valley Water District
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
VOC	Volatile Organic Compound

Executive Summary

The California Regional Water Quality Control Board – San Francisco Bay Region has conducted a Five-Year Review of the groundwater remedy implemented at the CTS Printex Superfund Site located at 1905, 1911, 1921 and 1931 Plymouth Street and 1904, 1940 and 1950 Colony Street in Mountain View, California. The groundwater remedy for the CTS Printex Site includes groundwater extraction and discharge under permit to the sanitary sewer and to the City of Mountain View wastewater treatment plant and monitoring. This is the second Five-Year Review for the CTS Printex Site, and the review period covers remedial activities conducted from May 1996 to September 2005. The first Five-Year Review report was signed by EPA on November 10, 1999.

The assessment of the First Five-Year Review found that the remedy was constructed and implemented in accordance with the requirements of the 1991 Record of Decision (ROD). CTS Corporation with RWQCB acceptance ceased groundwater extraction in 1996, based on the primary chemicals of concern in groundwater reaching asymptotic levels. The extraction wells remain shut off. Contaminant concentrations rebounded in the vicinity of well W-17, but are now decreasing. Potential sources in the vicinity of well W-17 may be present and should be assessed and addressed. Contaminant concentrations have been reduced throughout the plume, but still remain above cleanup levels. The effectiveness of the remedy should be re-evaluated, as provided in the ROD, and other cleanup technologies to expedite mass removal and cleanup time should be evaluated. The ROD should be modified if necessary.

The remedy is currently protective of human health and the environment because the institutional controls, in the form of a deed restriction, as required by the RWQCB Site Cleanup Requirements (SCR), prevent exposure to contaminated groundwater. The groundwater remedy has reduced contaminant concentrations throughout the plume. The groundwater exposure pathway that could result in unacceptable risks is being controlled by the deed restriction in place that prohibits groundwater use as required by the SCR. Therefore, it is recommended that the ROD be modified to include the institutional control as part of the Site remedy.

Additionally, it has been demonstrated that the vapor intrusion pathway does not result in unacceptable indoor air risks at the current buildings for commercial indoor worker exposure. The property is currently under consideration to be re-developed to include residential buildings. If the land use changes from the current commercial/industrial use to residential use, a comprehensive indoor air evaluation for residential use and a re-evaluation of the remedy selected in the ROD should be completed to ensure long-term protectiveness. Based on the outcome of these assessments, the ROD should be amended as necessary. The next Five-Year Review for the CTS Printex Site will be conducted in 2010.

FIVE-YEAR REVIEW SUMMARY FORM

SITE IDENTIFICATION

Site Names and EPA ID Numbers (from WasteLAN):
CTS Printex, Inc.
EPA ID: CAD009212838

EPA Region: 9	**State: CA**	**City, County: Mountain View, Santa Clara County**

SITE STATUS

NPL Status: [X] Final [ ] Deleted [ ] Other (specify) _____

Remediation Status (choose all that apply): [ ] Under Construction [X] Operating [ ] Complete

Multiple Operable Units?* YES [ ] NO [X]	**Construction completion date:** March 1992

Has site been put into reuse? YES [ ] NO [X] Multi-family residential is proposed

REVIEW STATUS

Lead Agency: EPA [ ] State [X] Tribe [ ] Other Federal Agency _____

Author Name: Michelle Rembaum-Fox

Author Title: Engineering Geologist	**Author Affiliation: California Regional Water Quality Control Board – San Francisco Bay Region**

Review Period:** May 1996 to September 2005

Date(s) of Site Inspection: 8/9/2005

Type of Review: [ ] Statutory [X] Post-SARA [ ] Pre-SARA [ ] NPL-Removal Only
[X] Policy [ ] Non-NPL Remedial Action Site [X] NPL State/Tribe-lead
[ ] Regional Discretion

Review Number: [ ] 1 (first) [X] 2 (second) [ ] 3 (third) [ ] Other (specify): _____

Triggering Action:
[ ] Actual RA Onsite Construction [ ] Actual RA Start at Operable Unit #_____
[X] Previous Five-Year Review Report

Triggering Action Date (from WasteLAN): 11/10/1999

Due Date (five years after triggering action date): 11/10/2004

Five-Year Review Summary Form (continued)

Issues:

- RWQCB approved curtailment of the groundwater extraction and treatment system. Groundwater concentrations rebounded initially, but are now decreasing and still remain above cleanup levels.
- Potential sources in the vicinity of Well W-17 may be present.
- Potential vapor intrusion pathways into buildings if the area be redeveloped for residential use.
- Institutional controls (in the form of a deed restriction) to prevent ingestion and exposure to contaminated groundwater was not included as part of the 1991 ROD.
- No remedial action objectives to address the subsurface vapor intrusion pathway in the 1991 CTS Printex ROD.

Recommendations and Follow-up Actions:

Groundwater

- As provided in the ROD, re-evaluate the effectiveness of the groundwater remedy. Amend the ROD, if necessary.
- As stated in the Final Site Cleanup Requirements, modify the ROD to include a deed restriction to prohibit the use of groundwater for drinking or other potable use.
- Potential sources in the vicinity of Well W-17 may be present and should be assessed and addressed.
- Evaluate applicability of other cleanup technologies to expedite mass removal and cleanup time. Amend the ROD, if necessary.

Air

- If necessary, amend the ROD to establish remedial action objectives and select a remedy that addresses potential long-term exposure of TCE and other VOCs at unacceptable levels through the vapor intrusion pathway for current and future buildings.
- Evaluate risk management measures and engineering controls to address potential vapor intrusion risks prior to redevelopment for residential use and include appropriate institutional controls, if necessary, to address vapor intrusion risks.

Protectiveness Statement

The remedy at the CTS Printex Site currently protects human health and the environment, regarding exposures considered in the 1991 ROD and RWQCB Site Cleanup Requirements (SCR). The groundwater remedy has reduced contaminant concentrations throughout the plume. The groundwater exposure pathway that could result in unacceptable risks is being controlled by the deed restriction in place that prohibits groundwater use as required by the SCR, and it has been demonstrated that the vapor intrusion pathway does not result in unacceptable indoor air risks at the current buildings for indoor worker exposure. The property is currently under consideration to be re-developed to include residential buildings. If the land use changes from the current commercial/industrial use to residential use, a comprehensive indoor air evaluation for residential use and a re-evaluation of the remedy selected in the ROD should be completed to ensure long-term protectiveness. Based on the outcome of these assessments, the ROD should be amended as necessary.

1.0 Introduction

The California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) conducted a Five-Year Review of the remedy implemented at the CTS Printex Site located at 1905, 1911, 1921 and 1931 Plymouth Street and 1904, 1940, and 1950 Colony Street in Mountain View, Santa Clara County, California. The purpose of the Five-Year Review is to evaluate the implementation and performance of the remedy and to determine whether the remedy at the site is protective of human health and the environment. The methods, findings, and conclusions of the review are documented in this Five-Year Review Report. In addition, the Five-Year Review Report identifies issues found during the review and provides recommendations and follow-up actions to address those issues.

This Five-Year Review Report is prepared pursuant to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) §121 and the National Contingency Plan (NCP). CERCLA §121 states:

> *If the President selects a remedial action that results in any hazardous substances, pollutants, or contaminants remaining at the site, the President shall review such remedial action no less often than each five years after the initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented. In addition, if upon such review it is the judgment of the President that action is appropriate at such site in accordance with section [104] or [106], the President shall take or require such action. The President shall report to the Congress a list of facilities for which such review is required, the results of all such reviews, and any actions taken as a result of such reviews.*

EPA interpreted this requirement further in the NCP; 40 CFR §300.430(f)(4)(ii) states:

> *If a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure, the lead agency shall review such action no less often than every five years after the initiation of the selected remedial action.*

This is the second Five-Year Review for the CTS Printex Site and is being conducted as a matter of policy because hazardous substances, pollutants, or contaminants remain at the Site above levels that allow for unlimited use and unrestricted exposure and it will take more than five years to meet cleanup goals. The triggering action for this policy review is EPA's signature date of the first Five-Year Review on November 10, 1999.

2.0 Site Chronology

Chronology of Events

Event	Date
Printex begins manufacturing of printed circuit boards at the site.	1970
Printex is acquired by CTS Corporation and renamed CTS Printex.	1981
CTS Printex ceased business operations and undertook voluntary site assessment and source removal activities for facility closure.	1985
RWQCB approves interim cleanup plan. DHS certified closure of facility. Groundwater extraction and discharge to City of Mountain View wastewater treatment plant begins.	1986
RWQCB issues Cleanup and Abatement Order No. 87-05 requiring source investigation and cleanup.	1987
RWQCB issues Cleanup and Abatement Order No. 89-63 requiring additonal source investigation and cleanup.	1989
Baseline Public Health Evaluation completed for Site. Public Health Assessment published by California Department of Health Services (DHS).	1990
CTS Printex site added to the National Priorities List.	Feb. 1990
RWQCB issues Cleanup and Abatement Order No. 90-14 requiring final cleanup.	1990
Remedial Investigation/Feasibility Study (RI/FS) completed.	Mar. 1991
RWQCB adopts Final Site Cleanup Requirements Order No. 91-081.	1991
EPA issues Record of Decision (ROD).	June 1991
Deed restriction (institutional control required in SCR) recorded.	1992
RWQCB approves temporary shutdown of groundwater extraction and treatment system because concentrations are reaching asymptotic levels.	Nov. 1996
RWQCB issues first Five-Year Status Report and Effectiveness Evaluation Review.	Apr. 1996
EPA signs First Five-Year Review Report.	Nov. 1999
At request of RWQCB, CTS Printex conducts Indoor Air and Soil Gas Study.	2004
CTS Printex submits request to re-evaluate remedy	2004
Title Search conducted for institutional control evaluation.	2005
Annual groundwater monitoring (1997-continues)	continues

3.0. Background

Physical Characteristics

The former CTS Printex facility was located at 1904, 1940, and 1950 Colony Street and at 1905, 1911, 1921 and 1931 Plymouth Street in the City of Mountain View, Santa Clara County, California. The former facility is bounded by Plymouth Street on the north, residences along Sierra Vista Avenue on the west, Colony Street on the south, and U.S. Highway 101 (Bayshore Freeway) on the east. [See Figure 1, Site Location Map]

Hydrogeology

The site is located in the Santa Clara Valley Groundwater Basin. The Santa Clara Valley is a fault-bounded structural basin filled with marine and alluvial sediments. Alternating layers of coarse and fine deposits result in a heterogeneous sequence of interbedded sands, gravels, silts, and clays.

Three shallow aquifer zones have been identified beneath the CTS Printex Site. These water-bearing zones are designed as the A, B, and the intermediate aquifer zones. The A, B and the intermediate aquifer zones are subdivisions of the upper aquifer zone. The shallowest, or the A aquifer zone (A zone), has its upper boundary at about 10 feet below ground surface (bgs), and lower boundary about 20 feet bgs. The B aquifer zone (B zone) lies between about 30 and 40 feet bgs. It is suspected that hydraulic separation between the two zones is imperfect owing to the discontinuous nature of sediment types. The deeper intermediate aquifer zone lies between 60 to 75 feet bgs. Depth to groundwater is approximately 9 feet. Shallow groundwater flow in the A and B zones, beneath the site is generally to the north. This flow regime is consistent with the northerly regional flow direction towards the San Francisco Bay.

Site Operational History

Beginning in 1970, Printex leased several buildings on Plymouth Street and Colony Street and operated a printed circuit board manufacturing facility. Printex was acquired by CTS Corporation in 1981 and was renamed CTS Printex, Inc. CTS Printex continued to manufacture printed circuit boards at the site until early 1985. The only industrial activity known to occur on the property was manufacturing of printed circuit boards.

Site Building Uses during CTS Printex Operations

Building Address	Uses
1905 Plymouth Street	Warehouse, cafeteria, drilling, and flammable material storage area (behind main building)
1911 Plymouth Street	Manufacturing (wet floor), inspection, screening
1921/1931 Plymouth Street	Lamination, and manufacturing (small wet-floor area)
1940 Colony Street	Offices, dry processes
1904/1950 Colony Street	Offices, dry processes, shipping

The buildings located at 1904, 1940 and 1950 Colony Street, were primarily used for offices, data processing, storage, shipping and dry processes. Hazardous materials were stored at two locations: the warehouse at 1905 Plymouth Street and a drum storage area located behind 1911 Plymouth Street. Printed circuit board manufacturing processes, which generated wastes, were primarily located within the buildings at 1911, 1921, and 1931 Plymouth Street. The building at 1911 Plymouth Street contained the "wet-floor building". [See Figure 2 – Site Plan With Former Site Uses]

Land and Resource Use

The land surrounding the CTS Printex Site is zoned for light industrial/manufacturing, commercial, residential, and agricultural use. Most buildings in the vicinity are low-rise developments containing offices, warehouses, and research and development facilities. The existing buildings are the original structures. The site area may be redeveloped for residential land use.

History of Contamination

CTS Corporation initiated subsurface investigations in 1985 (prior to moving their operation to Fremont, California). Contaminant sources identified were the wet floor located at 1911 Plymouth Street and the acid neutralization sump located adjacent to the building.

Groundwater contamination at the CTS Printex Site consists primarily of trichlorethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA) and their breakdown products 1,1-dichloroethene (1,1-DCE), cis & trans-1,2-dichloroethene (c/t-DCE), and 1,1-dichloroethane (1,1-DCA). Groundwater contamination from the Site formed a plume that migrated about 1000 feet northeast toward the San Francisco Bay. Onsite contamination was generally restricted to the A and B zones. Prior to groundwater remediation, the highest TCE concentrations were approximately 1500 micrograms per liter (μg/L) in the A-zone and 7000 μg/L in the B-zone. The primary chemicals of concern were not detected in the C-zone.

Initial Response

Initial response actions began at the site in 1985 when CTS Corporation removed source area soils and the sump. Interim actions at the Site included: (1) the destruction and removal of contaminated structures; (2) removal of residual metals sludges and process debris; (3) hydroblasting interior areas exposed to contaminants; (4) excavation of neutralization sump and approximately 255 cubic yards of contaminated soil which was transported to a Class I hazardous waste landfill; and (5) installation and operation of a groundwater extraction system which discharges to the sanitary sewer. The destruction, decontamination, and soil excavation occurred in September 1986. In November 1986, CTS submitted an Interim Remedial Plan to the RWQCB proposing an immediate response action for mitigating downgradient, off-site migration of groundwater containing volatile organic compounds (VOCs).

The interim remedial response action included groundwater extraction and discharge under permit to the City of Mountain View sanitary sewer system. In July 1987, groundwater extraction was initiated from two A-zone extractions wells (ES1W and ES2W) and two B-zone extraction wells (ED1W and ED2W). In December 1988, two additional A-zone extraction wells (ES3W and ES4W) and one B-zone extraction well (ED3W) was added to the extraction system and began operating.

Summary of Basis for Taking Action

The site overlies the Santa Clara groundwater basin. Groundwater from this basin is of very high ambient quality, and the deeper aquifers in the area are actively used as a source of drinking water. The CTS Printex Site was listed on the National Priorities List primarily because of past chemical releases and the actual or threatened release of hazardous substances from the site. Implementing the response actions were determined to be necessary because if contamination was left unaddressed, the site contamination may pose an imminent and substantial endangerment to public health, welfare or the environment.

4.0 Remedial Actions

Remedy Selection

A Record of Decision (ROD) was signed by EPA on June 28, 1991. The selected groundwater remedy consists of continued operation of the existing groundwater extraction system. The groundwater extraction system includes four A-zone extraction wells (ES1W, ES2W, ES3W and ES4W) and three B-zone extraction wells (ED1W, ED2W, and ED3W). The extraction rate of the system is approximately 45 gallons per minute. Extracted groundwater is discharged under permit to the sanitary sewer.

The goal of this remedial action is to restore groundwater to its beneficial use, which at this Site, is a potential drinking water source. The selected remedy addresses the primary risks posed by the contamination in groundwater in the upper aquifer zone. The objective of the selected remedy is to remove and permanently destroy the contaminants in the groundwater from groundwater or significantly reduce the toxicity, mobility, or volume of hazardous substances in the groundwater. This response action is designed to greatly reduce the possibility of contamination of current and potential water supplies.

The final cleanup levels for groundwater as stated in the ROD are:

Chemical	Cleanup Standard (μg/L)
1,1-dichloroethene (1,1-DCE)	6
Trichloroethene (TCE)	5
1,1-dichloroethane (1,1-DCA)	5
1,1,1-trichloroethane (1,1,1-TCA)	200
trans-1,2-dichloroethene (trans 1,2-DCE)	10
Benzene	1
Perchloroethene (PCE)	5
1,2-dichloroethane (1,2-DCA)	0.5
Toluene	100
Chloroform	100
Methylene chloride	5

Remedy Implementation

Groundwater extraction and discharge was initiated in 1986. Three A-zone extraction wells and four B-zone extraction wells operated from 1986 to November 1996. In October 1996, CTS Corporation requested interim groundwater extraction termination in a letter to the RWQCB.

In November 1996, RWQCB staff concurred with CTS Corporation that concentrations of the chemicals of concern were stable and further reduction to reach applicable or relevant and appropriate requirements (ARARs) was not likely, based on the chemicals of concern reaching asymptotic levels. The primary chemicals released to groundwater at the Site were TCE and 1,1,1-TCA. [See Figures 4 and 5 & Appendix 1]

Final Site Cleanup Requirements (SCR)

The RWQCB adopted Final Site Cleanup Requirements (SCR) Order No. 91-081 for the Site in May 1991. The Responsiveness Summary in the June 1991 ROD included comments and responses on the Final Site Cleanup Requirements.

The Final Site Cleanup Requirements consisted of:

1. Continued groundwater extraction until VOC concentrations are reduced to acceptable cleanup standards (as listed in table in the Final SCR);

2. No further remediation of soils. Soils at the site are no longer considered a public health or environmental risk;

3. Implementation of institutional controls, such as deed restrictions, prohibiting the use of shallow groundwater for drinking water; and

4. A long-term groundwater monitoring program, and the submittal of periodic reports concerning the status if site remediation.

A deed restriction was prepared for the property and recorded with the Santa Clara County Records Office in 1992. The deed restriction prohibits the use of groundwater from the Site for drinking water. A local ordinance prohibiting the drilling of shallow wells for drinking water purposes is enforced by the Santa Clara Valley Water District continues to be in effect. In December 2004, a title search was conducted by Chicago Title Company on behalf of Regis Homes as part of a real estate transaction for the site property. The deed restriction remains in place as originally recorded. [See Appendix 2 – Title Search]

Systems Operation/O&M

Groundwater extraction began in 1986 and ceased in November 1996. CTS Corporation continues to sample selected monitoring wells annually. During the period of groundwater extraction, approximately 97.4 million gallons of groundwater and 98 pounds of TCE were removed from four shallow A-zone extraction wells, and three B- zone extraction wells. Concentrations of TCE were significantly reduced in the first few years of remediation. Concentrations of 1,1,1-TCA have been below its cleanup level (200 µg/L) since 1990. [See Appendix 1]

5.0. Progress Since Last Review

Previous Five-Year Review

The first Five-Year Review Report for the review period May 1991 to January 1996 was prepared by the RWQCB in 1996 and signed by EPA in November 1999. The Report recommended continued implementation of the approved remedial actions and the request for reduced monitoring frequency to annually should be approved. RWQCB and EPA certified that the remedy selected for the site remains protective of human health and the environment.

Soil Gas/Indoor Air Investigation (2004)

In response to a request by the RWQCB, CTS Corporation conducted a soil gas and indoor air investigation of the Site and downgradient area (adjacent to Well W-17). [See Figure 3 & Appendix 3]

Three soil gas samples were collected on the CTS Printex Site and tested for VOCs. The results for TCE were: non-detect, 77 micrograms per cubic meter ($\mu g/m^3$) and 840 $\mu g/m^3$. One soil gas sample in a downgradient location near monitoring well W-17A had a TCE concentration at 5000 $\mu g/m^3$ (duplicate sample was 5100 $\mu g/m^3$). CTS Corporation suspected that this TCE soil gas concentration was attributable to another, off-site source of TCE.

The indoor air samples taken at 1921 and 1931 Plymouth St. buildings had TCE concentrations in air of 0.57 and 0.58 $\mu g/m^3$, respectively. The RWQCB's Environmental Screening Level (ESL) for TCE in indoor air for occupational settings is 2.0 $\mu g/m^3$. CTS Corporation has investigated the potential subsurface vapor intrusion of TCE into the current buildings. And although soil gas levels are above the screening levels, actual indoor air measurements are below the RWQCB's ESL for occupational exposure and EPA's interim TCE action level for indoor workers. However, if the property is redeveloped, the vapor intrusion pathway should be re-examined, and potentially engineering and institutional controls or additional remediation may be needed.

Additional Off-site Investigations (2004-2005)

As part of a proposed real estate property transaction, soil and groundwater samples were collected from the property just downgradient and across the street from the former CTS Printex facility (the 1914 Plymouth site). Detections in soil samples collected beneath the building showed TCE at 350 micrograms per kilogram ($\mu g/kg$) and grab groundwater samples showed maximum TCE concentration of 33 $\mu g/L$. Additional investigations were undertaken in July 2004, to assess whether there were known utility lines that could serve as preferential pathways. A utility line was determined to extend from the floor drains inside the building, south towards Plymouth Street.

In 2005, RWQCB staff concluded that: (1) use and storage of solvents and other chemicals have been documented at the 1914 Plymouth site; (2) it appears that there has been a release and/or spill along the sewer line from past operations; (3) the concentrations of chemicals of concern in shallow soils under the 1914 Plymouth site are below the RWQCB ESLs that

would suggest a potential human health risk from intrusion of volatile organic vapors into indoor air for commercial/industrial land use; and (4) based upon the available information, no further action related to the pollutant release at the 1914 Plymouth site is required. [See Appendix 4]

Additionally, Santa Clara Valley Water District (SCVWD) was the lead agency for an upgradient site located on Old Middlefield Way that had a maximum TCE groundwater concentration of 170 µg/L. In 1999, SCVWD determined that the site did not appear to pose a threat to human health or the environment and the facility received site closure.

CTS Corporation Request for Record of Decision Amendment (2004)

CTS Corporation submitted a Request for Record of Decision Amendment in November 2004. The request asked for a ROD Amendment to include the following:

- A new chemical-specific ARAR for chloroform at 80 µg/L
- A Technical Impracticability (TI) waiver for the chemical-specific ARARs for TCE, cis- and trans-1,2-DCE, 1,1,-DCE, and 1,1-DCA, and
- Revision of the selected remedy to be the established institutional controls, including the site deed restriction (February 1992), and restricted access to the shallow groundwater, through enforcement of the SCVWD groundwater protection program ordinance.

Some of the reasons CTS Corporation provided in their ROD Amendment request include: (1) CDHS established 80 µg/L as the MCL for chloroform; (2) groundwater extraction has been effective in reducing toxicity, mobility or volume of the chemicals of concern in groundwater and that the chemicals of concern have reached residual levels and further engineering technologies would not result in any substantial reduction of the chemicals of concern; and (3) additional efforts to reduce the chemicals of concern are not possible because the sources are not under the control of CTS Corporation.

RWQCB and EPA are currently continuing to consider this request and no decision on this request has been made yet.

Environmental Site Assessment (2005)

In 2005, Regis Homes conducted an Environmental Site Assessment (ESA) of the CTS Printex Site because Regis Homes is considering purchasing the former CTS Printex property. Soil, soil gas and grab groundwater samples were collected and a title search was performed as part of the ESA.

Of the 21 soil gas samples collected at depths of either 1-2 feet or 5-6 feet, TCE was detected in two soil gas samples at 8.9 $\mu g/m^3$ and 13 $\mu g/m^3$. Other chemicals of concern were also sporadically detected, including benzene, cis-1,2-DCE, toluene, and vinyl chloride.

Twelve soil gas samples were collected at depths ranging from one foot bgs to six feet bgs. Nine of the samples had concentrations of TCE below 120 $\mu g/m^3$. One sample was non-detect. Two samples had concentrations of 3300 and 4200 $\mu g/m^3$. These samples were at a depth of five to six feet and were beneath the 1911 Plymouth Street building.

Eight grab groundwater samples were taken. One or more VOCs were detected in five of the eight samples. Three sample results exceed the groundwater cleanup level for TCE with concentrations of 6.3 µg/L, 17 µg/L and 5.5 µg/L. The sample containing 5.5 µg/L was considered an upgradient concentration. No other VOC detections in groundwater exceeded their respective cleanup levels. [See Appendix 5]

The ESA report also reviewed historical groundwater data and concluded that there were exceedences of the TCE cleanup level at the Site. However, the report also noted that there appeared to be other off-site sources of TCE contributing to the groundwater contamination. The report recommended the use of engineering controls, such as vapor barriers and/or vapor extraction systems, to mitigate the potential of TCE migrating from the groundwater to indoor air in a future residential development.

6.0 Five-Year Review Process

Administrative Components

Michelle Rembaum-Fox of RWQCB, Case Manager for the CTS Printex Site, led the CTS Printex Five-Year Review team. Alana Lee of the EPA assisted in the review as the representative for the support agency, and included members from EPA's technical support section.

Community Involvement

A public notice was placed in the *Mountain View Voice* on September 16, 2005 announcing the Five-Year Review was being conducted and to contact the RWQCB if the public had any questions, concerns, or information to share about the remedy being conducted at the CTS Printex Site.

Document Review

This Five-Year Review consisted of a review of the following relevant documents:

EPA Record of Decision for the CTX Printex Site, June 1991.
RWQCB Final Site Cleanup Order No. 91-081, May 1991.
CTS Corporation Letter Request for Interim Termination of Groundwater Extraction, 1996.
RWQCB Letter Granting Interim Termination of Groundwater Extraction, November 1996.
RWQCB First Five-Year Review for CTS Printex Site, April 1996.
CTS Printex Annual Monitoring and Status Reports (2001 - 2004).
Indoor Air/Active Soil Gas Sampling Results for Former CTS Printex Site, prepared by CSS Environmental Services, Inc., July 20, 2004.
Draft Request for ROD Amendment, CTS Corporation, November 9, 2004.
Environmental Site Assessment Report – Former CTS Printex Site, GeoSyntec Consultants, Inc., May 26, 2005.
Prelimnary Report – 1905-1931 Plymouth Street and 1940 Colony Street, Mountain View, California, prepared by Chicago Title Company, December 22, 2004.

Data Review

Groundwater monitoring data collected from 1997 to 2004 was reviewed to evaluate groundwater conditions. The TCE groundwater concentrations in the A-zone showed an inconsistent pattern. Some wells showed a decline in concentrations, some remained the same and some increased. When the extraction system was shut off in November 1996, TCE levels ranged throughout the plume from non detect (ND) to 77 μg/L. Since the shutdown, overall concentrations in the wells on the former CTS Printex property rose slightly to a maximum TCE groundwater concentration of 26 μg/L in 2004. Immediately downgradient, the TCE concentrations increased from 77 μg/L to a maximum TCE concentration of 350 μg/L in well W-17 in 1999. The levels in one well considered the upgradient well decreased from 11 to 5.8 μg/L. Concentrations of TCE in one well, W-17, downgradient of the former source area, rebounded initially from 19 μg/L in June 1996 to 280 μg/L in June 1997. In 2004 the TCE concentration in well W-17 is 170 μg/L. TCE concentration trends for A-zone and B-zone wells are shown in Figures 4 and 5. A historical summary of all the groundwater concentrations for the A-zone and B-zone wells monitored at the Site is provided in Appendix 1. There appears to be new evidence suggesting there may be another potential source of TCE at the property immediately downgradient of the CTS Printex site that may be the source of increased TCE in this well (referred to as the 1914 Plymouth site).

Site Inspection

RWQCB staff conducted a site inspection on August 9, 2005. No activities that could interfere with the remedy of the Site were observed. Photographs of the current site area are provided in Appendix 6 – Site Photographs.

7.0 Technical Assessment

Question A: Is the remedy functioning as intended by the decision documents?

The remedy selected in the ROD was implemented as planned and was successful in removing 98 pounds of TCE from groundwater in the A and B-zones. Concentrations of VOCs were removed to below the groundwater cleanup levels for most of the downgradient plume. The remedy has generally been effective in containing contamination to the immediate site area. [See Appendix 1] However, the remedy is currently not operating.

CTS Corporation with RWQCB acceptance ceased groundwater extraction in November 1996, based on the primary chemicals of concern reaching asymptotic levels. RWQCB staff concurred with CTS that concentrations of the chemicals of concern were stable and further reduction to reach ARARs was not likely. The extraction system remains shut down.

The stated goal in the ROD is to restore groundwater to its beneficial use. The ROD also states that if contaminant levels ceased to decline, then the system performance standards and/or the remedy may be re-evaluated. The effectiveness of the groundwater remedy should be re-evaluated, and if necessary the ROD should be amended.

Concentrations of TCE in the shallow A-zone have rebounded slightly since shutdown and, in some wells, remain above the cleanup levels. The concentrations of TCE in the B-zone have roughly remained stable with the exception of the downgradient well, W-17, in an isolated "hot spot" area where there may potentially be another source of TCE contributing to its elevated concentrations above the cleanup level.

The groundwater monitoring program and institutional controls have been implemented as intended in the May 1991 RQWACB Final Site Cleanup Requirements. The institutional controls in place include prohibitions on the use of groundwater until cleanup levels are achieved. No activities were observed that would have violated the institutional controls. It is recommended that the ROD is modified in the form of an ESD (Explanation of Significant Differences) or ROD Amendment to include the deed restriction to prevent the use of contaminated groundwater for drinking water or potable uses. A title search was conducted in 2004 by Chicago Title Company on behalf of Regis Homes as part of a real estate transaction for the site property. The deed restriction remains in place as originally recorded. [See Appendix 2]

Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy selection still valid?

In an effort to determine whether the remedy at the CTS Printex Site remains protective of human health and the environment, this section discusses changes in site conditions, changes in exposure pathways, changes in toxicity values, changes in remedial action objectives, and changes in ARARs since selection of the Site remedy.

Changes in Site Conditions

There have been no changes in site conditions. However, the area is proposed for a mixed-use redevelopment, including residential.

Changes in Exposure Pathways

A baseline human health risk assessment for the site was prepared by CTS Corporation in 1990. This risk assessment was incorporated into the RI/FS Report and Final Remedial Action Plan and was used in evaluating and selecting remedial alternatives for the Site. The risk assessment identified three potential exposure pathways: (1) Possible inhalation of indoor residential air containing indicator chemicals that may have volatilized from contaminated groundwater and/or soil; (2) Exposure to indicator chemicals due to construction activities disturbing subsurface soil involving both onsite workers and offsite adults and children (potential exposure pathways include ingestion, dermal contact, inhalation of particulates, and inhalation of vapors); and (3) Exposure to indicator chemicals due to use (such as potable water) of groundwater extracted from wells (existing or future installations) screened in the shallow aquifer (potential exposure pathways include ingestion, dermal contact, and inhalation of vapors from showering).

Current institutional controls have prevented installation of wells into the affected area. This has controlled the exposure pathways for ingestion of ground water; dermal contact with groundwater while showering; and inhalation of VOCs while showering. It is recommended that the ROD be modified to include these institutional controls as part of the remedy.

Since 1999, the understanding of the fate and transport of chemicals in the subsurface has evolved, with greater concern over the vapor intrusion pathway, particularly at sites with past releases of TCE. In September 2002, EPA's Office of Solid Waste and Emergency Response (OSWER) released an external review draft *"Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils"* (Draft Vapor Intrusion Guidance) that focuses specifically on this pathway. EPA considers many factors in determining whether there is a potential for vapor intrusion from groundwater contamination, including depth to groundwater, soil type and concentration of contaminant. EPA's Draft Vapor Intrusion Guidance states that the vapor intrusion pathway should be investigated if the levels of TCE exceed 5 μg/L in shallow groundwater and/or if the levels of TCE in soil gas exceed 55 $\mu g/m^3$ for loamy soils. Although concentrations at the site exceed these screening levels, indoor air in selected buildings at the site has been sampled.

In 2004, in response to a request by the RWQCB, CTS Corporation conducted a soil gas and indoor air investigation at the Site including the downgradient area (adjacent to Well W-17). [See Figure 3 & Appendix 3]

Three soil gas samples were collected on the former CTS Printex property and tested for VOCs. The results for TCE were non-detect, 77 $\mu g/m^3$ and 840 $\mu g/m^3$. One soil gas sample in a downgradient location near monitoring well W-17A had a TCE concentration of 5000 $\mu g/m^3$ (duplicate sample was 5100 $\mu g/m^3$). The investigation suspected that this TCE soil gas concentration was attributable to another, off-site source of TCE.

The indoor air samples taken at 1921 and 1931 Plymouth St. buildings had TCE concentrations in air of 0.57 and 0.58 $\mu g/m^3$, respectively. The RWQCB's Environmental Screening Level (ESL) for TCE in indoor air for occupational settings is 2.0 $\mu g/m^3$.

CTS Corporation has investigated the potential vapor intrusion pathway at several current buildings. And although soil gas levels are above the screening levels, actual indoor air measurements are below the RWQCB's ESL for occupational exposure and EPA's interim action level for TCE in indoor air for indoor workers. However, if the property is redeveloped for residential use, the vapor intrusion pathway should be re-examined, and potentially engineering and institutional controls or additional remediation may be needed.

Changes in Toxicity Values

Since the Baseline Public Health Evaluation (BPHE) submitted by CTS in 1990, there have been a number of changes to the toxicity values for certain chemicals of concern at the CTS Printex Site. However, these changes have not affected the current protectiveness of the remedy.

Revisions to the toxicity values for 1,1-DCE indicate a lower health risk from exposure to this chemical than previously considered. On the other hand, evaluation of the toxicity values for PCE and TCE is ongoing and may indicate higher health risks from exposure than previously considered.

The greatest uncertainty with toxicological changes for the CTS Printex Site is associated with TCE. In August 2001, EPA's Office of Research and Development (ORD) released the draft "Trichloroethylene Health Risk Assessment: Synthesis and Characterization" (draft TCE Health Risk Assessment) for external peer review. The draft TCE Health Risk Assessment takes into account recent scientific studies of the health risks posed by TCE. According to the draft TCE Health Risk Assessment, for those who have increased susceptibility and/or higher background exposures, TCE could pose a higher health risk through inhalation than previously considered. The draft TCE Health Risk Assessment is available on-line at: http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=23249

The Science Advisory Board, a team of outside experts convened by EPA, reviewed the draft TCE Health Risk Assessment in 2002. The Science Advisory Board's review of the draft TCE Health Risk Assessment is available at: http://www.epa.gov/sab/pdf/ehc03002.pdf

In 2004, EPA and other federal agencies initiated the scientific consultation with the National Academy of Sciences (NAS) on key scientific issues related to TCE. Public meetings were held in 2005 with the NAS expert panel to gain additional insights on TCE. Advice from the NAS expert panel on TCE science issues is expected in 2006. EPA plans to incorporate the advice from the NAS expert panel, along with comments from the EPA Science Advisory Board and the public, as well as recently published scientific literature, into a revised TCE health risk assessment. The revised TCE health risk assessment with then undergo further external peer review and public comment prior to being finalized. Consequently, review of the toxicity value for TCE may continue for a number of years. This issue will need to be updated in subsequent Five-Year Reviews.

For more information and TCE Reassessment updates: see
http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=119268

Changes in Remedial Action Objectives
Remedial action objectives for the subsurface vapor intrusion pathway were not established in the 1991 ROD for the CTS Printex site. If necessary, the ROD may be amended to establish remedial action objectives and select a remedy that addresses potential long-term exposure of TCE and other VOCs at unacceptable levels through the vapor intrusion pathway into current and future buildings.

Changes in ARARs
There have been no changes in ARARs or standards affecting the protectiveness of the remedy. The groundwater cleanup standards identified in the ROD (e.g., MCLs) remain valid.

Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

At the time of this review there is no other information available that would call into question the protectiveness of the remedy.

Technical Assessment Summary

Land use has not changed in the area overlying the groundwater contamination plume, but it may change from commercial/industrial use to residential use in the future. If the property is re-developed, a closer look at the vapor intrusion pathway will need to be completed. Current institutional controls, as required by the Final SCR, have prevented installation of wells into the affected area. These institutional controls have controlled and prevented the exposure pathways for ingestion and dermal contact of contaminated groundwater. It is recommended that the ROD be modified to include these institutional controls as part of the Site remedy.

8.0 Issues

The following issues were identified based on the findings of the Five-Year Review:

- RWQCB approved curtailment of the groundwater extraction and treatment system. Groundwater concentrations rebounded initially, but are now decreasing and still remain above cleanup levels.

- Institutional controls (in the form of a deed restriction) to prevent ingestion and exposure to contaminated groundwater was not included as part of the 1991 ROD.

- Potential sources in the vicinity of Well W-17 may be present.

- Potential subsurface vapor intrusion pathways into buildings should the area be redeveloped for residential use.

- No remedial action objectives to address the subsurface vapor intrusion pathway in the 1991 CTS Printex ROD.

9.0 Recommendations and Follow-up Actions

The following table summarizes the issues, recommendations and follow-up actions. Each issue, recommendation and follow-up action also identifies the party responsible to conduct the follow-up work, identifies RWQCB and EPA as the agencies with oversight authority, includes the timeframe related to resolution of the issue, and indicates whether the issue affects current and future protectiveness of the remedy.

Issues, Recommendations and Follow-Up Actions

Issue	Recommendations/ Follow-up Actions	Party Responsible	Oversight Agency	Milestone Timeframe	Affects Protectiveness? (Yes/No)	
					Current	Future
Evaluation of the effectiveness of the groundwater remedy	As provided in the ROD, re-evaluate the effectiveness of the groundwater remedy. Amend the ROD, if necessary.	RWQCB/EPA	RWQCB/ EPA	2007-2008	No	No
Potential sources in the vicinity of Well W-17 may be present	Potential sources in the vicinity of Well W-17 may be present and should be assessed and addressed.	CTS	RWQCB/ EPA	2007-2008	No	No
Groundwater concentrations remain above the cleanup levels	Evaluate applicability of other cleanup technologies to expedite mass removal and cleanup time. Amend the ROD, if necessary	CTS	RWQCB/ EPA	2007-2008	No	No
Institutional controls to prevent ingestion and exposure to contaminated groundwater was not included as part of the 1991 ROD.	Modify the ROD to include institutional controls as part of the cleanup remedy as they are implemented to prevent ingestion and exposure to contaminated groundwater.	RWQCB/EPA	RWQCB/ EPA	2006-2008	No	No
No remedial action objectives to address the subsurface vapor intrusion pathway in the ROD.	If necessary, amend the ROD to establish remedial action objectives and select a remedy that addresses potential long-term exposure of TCE and other VOCs at unacceptable levels through the vapor intrusion pathway for current/future buildings.	RWQCB/ EPA	RWQCB/ EPA	TBD	No	Yes
Potential vapor intrusion pathways into buildings should the area be redeveloped for residential use.	Evaluate risk management measures and engineering controls to address potential vapor intrusion risks prior to redevelopment for residential use and include appropriate institutional controls, if necessary, to address vapor intrusion risks.	RWQCB/ EPA	RWQCB/ EPA	2006-2007	No	Yes

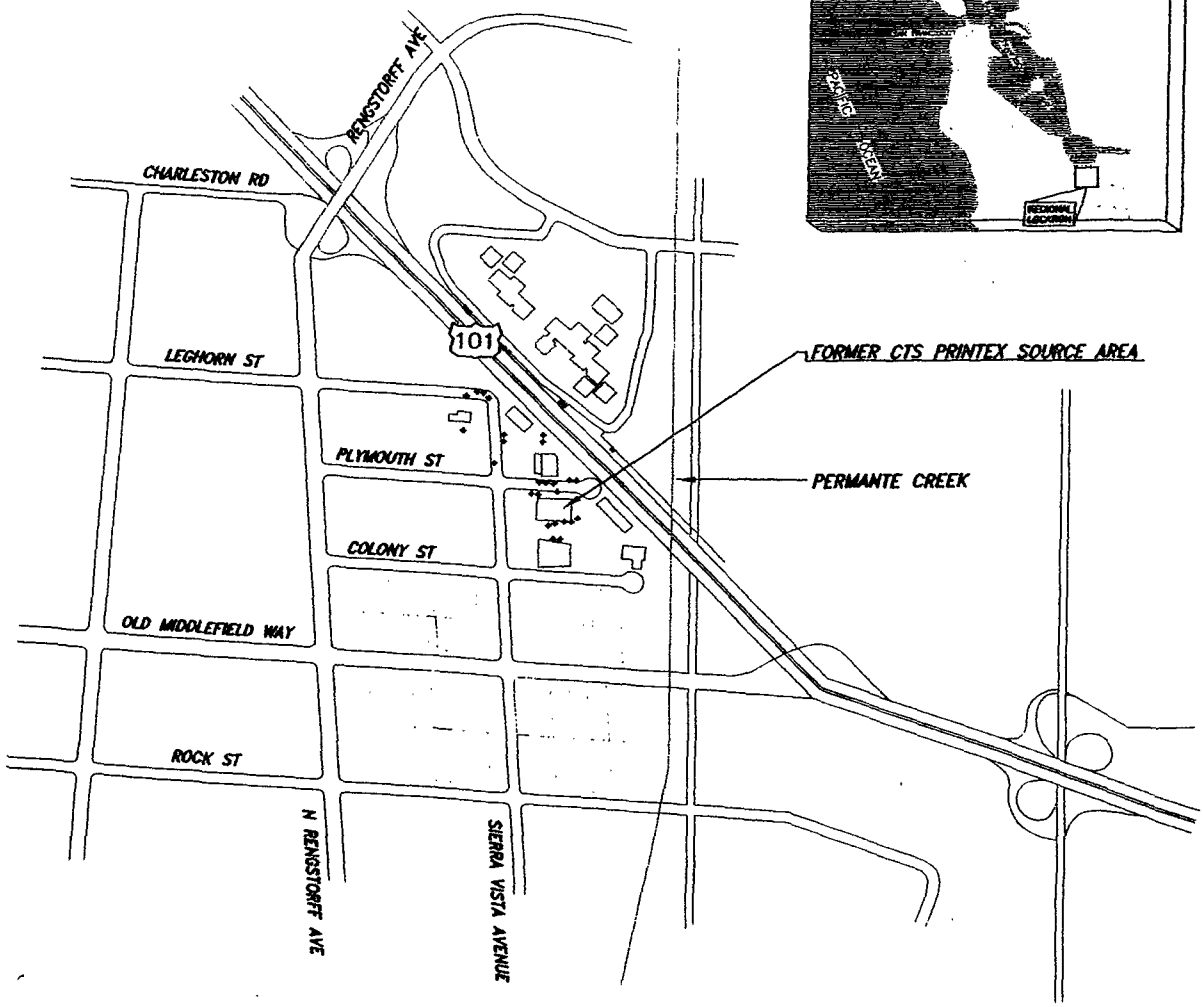
10.0 Protectiveness Statement

The remedy at the CTS Printex Site currently protects human health and the environment, regarding exposures considered in the 1991 ROD and RWQCB Final Site Cleanup Requirements (SCR). The groundwater remedy has reduced contaminant concentrations throughout the plume. The groundwater exposure pathway that could result in unacceptable risks is being controlled by the deed restriction in place that prohibits groundwater use as required by the SCR, and it has been demonstrated that the vapor intrusion pathway does not result in unacceptable indoor air risks at the current buildings for commercial indoor worker exposure. The property is currently under consideration to be re-developed to include residential buildings. If the land use changes from the current commercial/industrial use to residential use, a comprehensive indoor air evaluation for residential use and a re-evaluation of the remedy selected in the ROD should be completed to ensure long-term protectiveness. Based on the outcome of these assessments, the ROD should be amended as necessary.

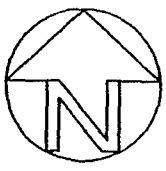
11.0 Next Review

The next five-year review for the CTS Printex Site is required by September 30, 2010.

FIGURES



* MONITORING AND EXTRACTION WELLS



CSS

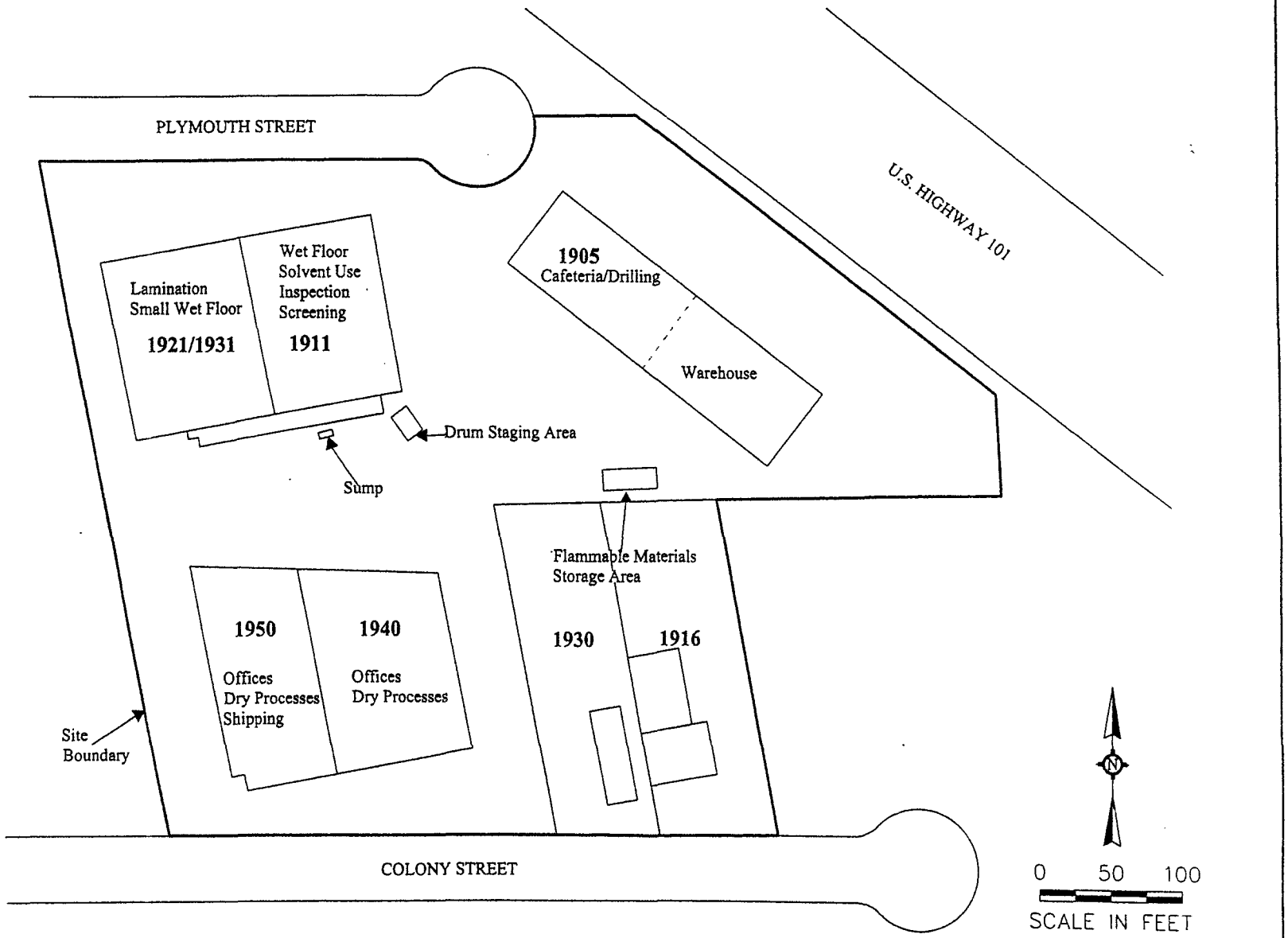
CSS ENVIRONMENTAL SERVICES, INC.

SITE LOCATION MAP

FORMER CTS–PRINTEX FACILITY
MOUNTAIN VIEW, CALIFORNIA

PLATE 1

JOB NUMBER	DATE	DRAWING	BY	REVISED
6268	10/04	6268–1	CSS	01/05



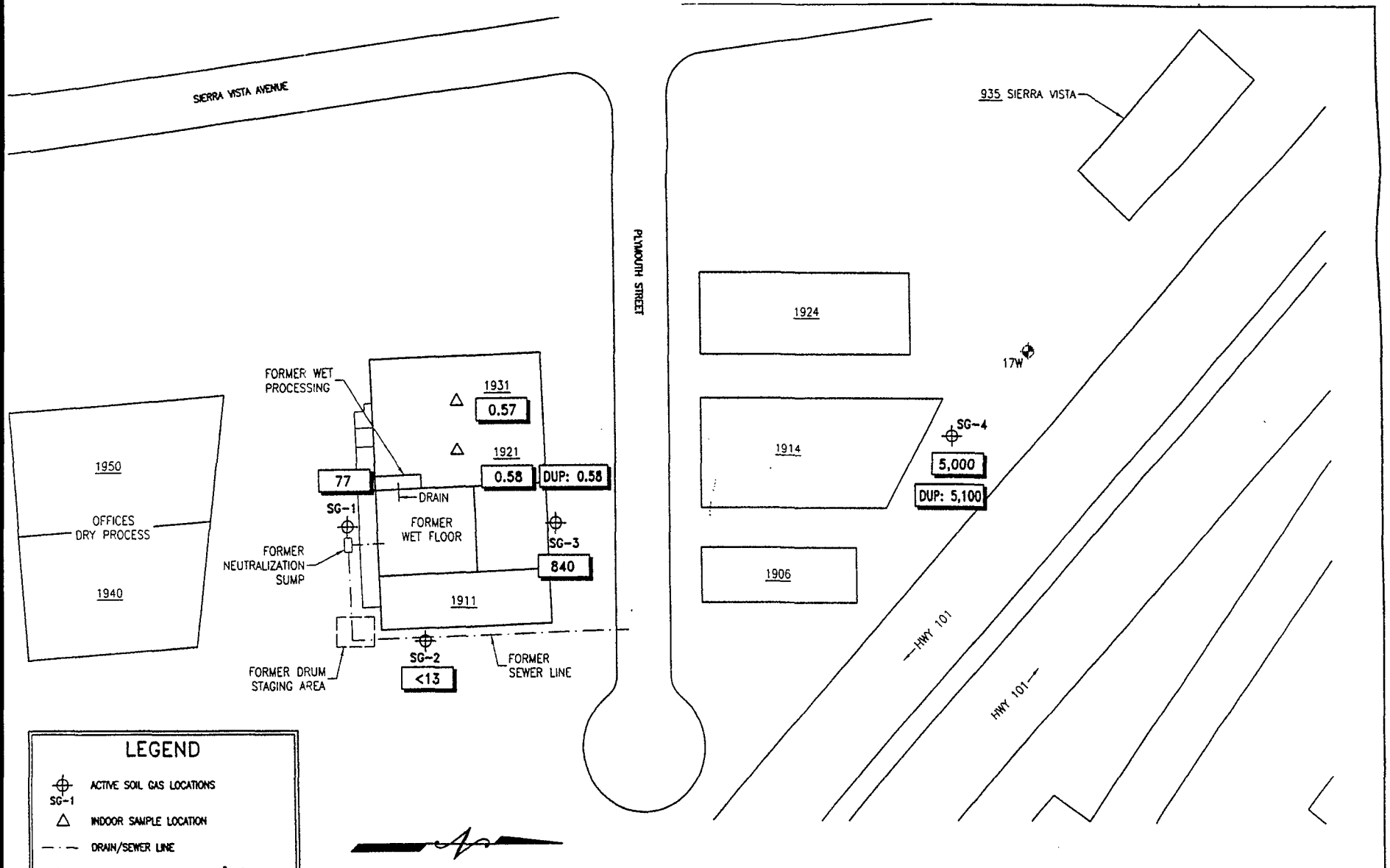
Source: Aqua Terra Technologies, Inc (ATT), 1989. "Public Health and Environmental Evaluation Plan, Remedial Investigation/Feasibility Study," Former CTS Printex Facility, Mountain View CA. 31 May

GeoSyntec Consultants

SITE PLAN WITH FORMER SITE USES
FORMER PRINTEX SITE
MOUNTAIN VIEW, CALIFORNIA

FIGURE NO.	2
PROJECT NO.	WR0778-01
DATE:	23 MAY 2005

P:\CADD\Regis Homes\Plymouth and Colony\Figure 2.dwg 5-23-05



LEGEND

- SG-1 — ACTIVE SOIL GAS LOCATIONS
- △ — INDOOR SAMPLE LOCATION
- — · — DRAIN/SEWER LINE

NOTE: ALL RESULTS IN ug TCE per m^3 AIR

SCALE

FEET 0 100 FEET

NOTE: BUILDING LOCATIONS AND SCALES APPROXIMATE

CSS

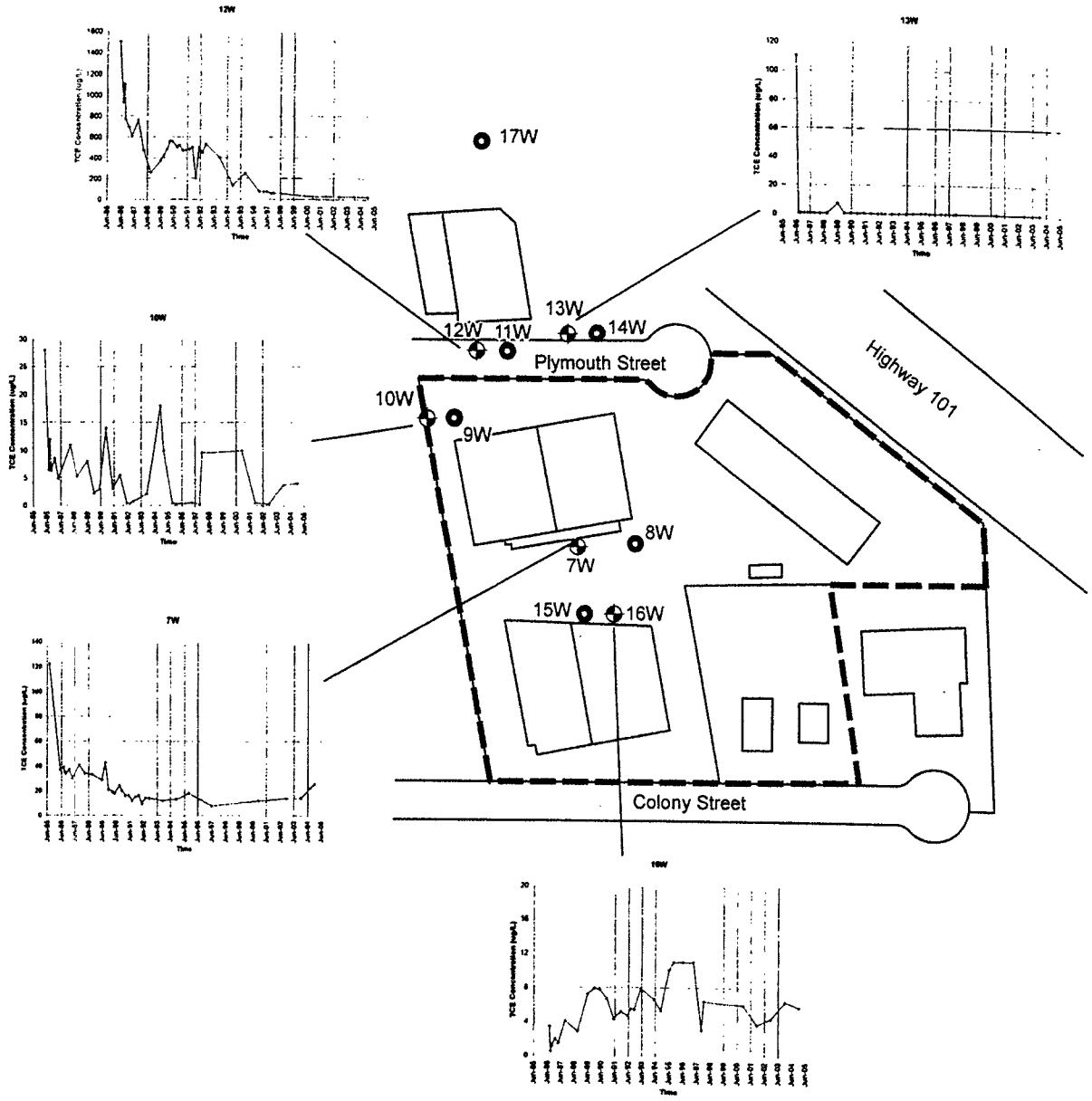
CSS ENVIRONMENTAL SERVICES, INC.

ACTIVE SOIL GAS ANALYTICAL RESULTS

FORMER CTS-PRINTEX FACILITY
MOUNTAIN VIEW, CALIFORNIA

PLATE 3

JOB NUMBER	DATE	DRAWING	BY	REVISED
3500	10/03	SOIL-GAS ANALYTICAL	BED	07/04



Legend

- Groundwater Monitoring Well Location (10-20 ft bgs)
- Groundwater Monitoring Well Location (30-40 ft bgs)
- Site Boundary

ft bgs = feet below ground surface

N

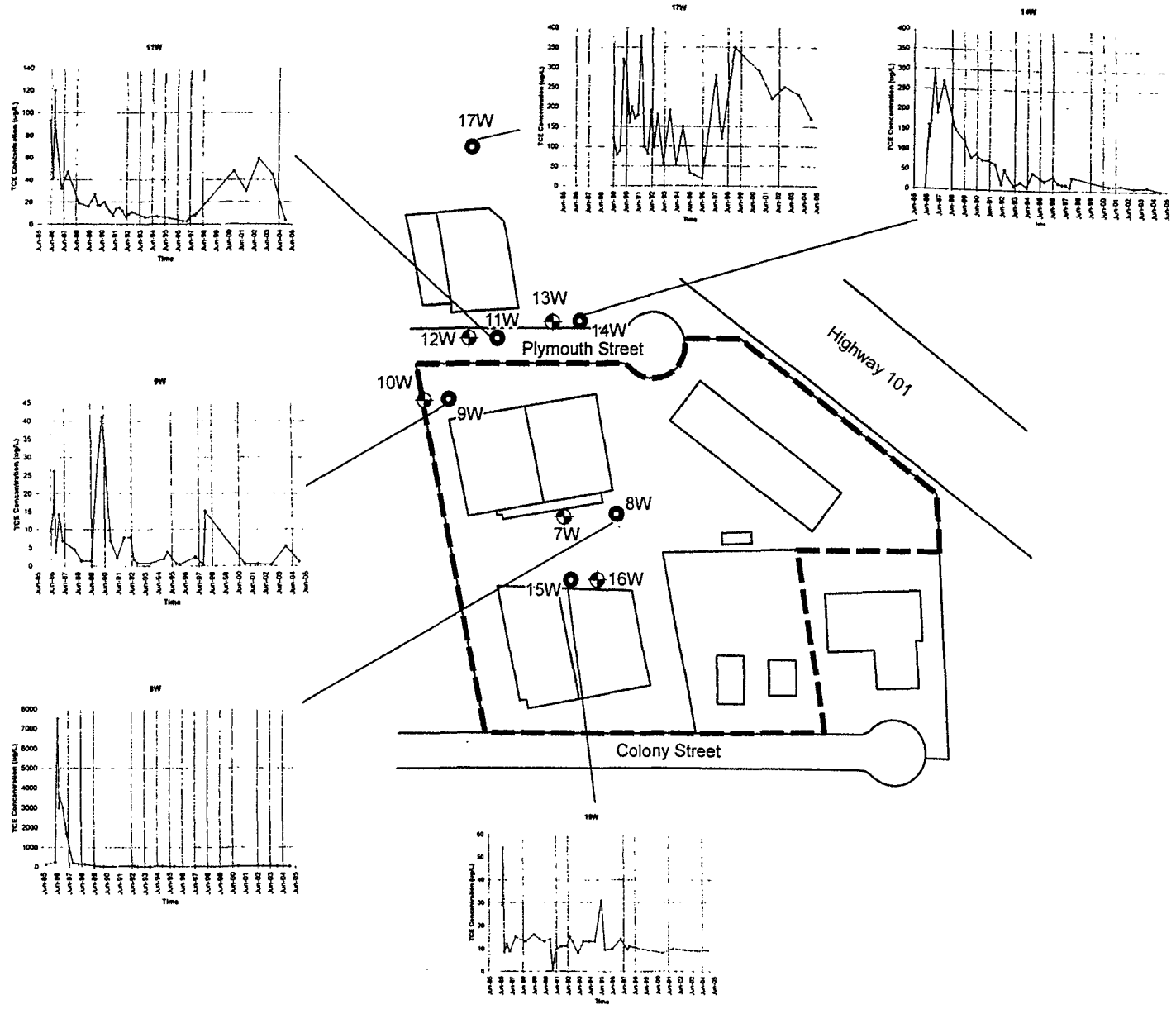
0 50 100 200 Feet

GeoSyntec Consultants

TCE CONCENTRATIONS IN A ZONE GROUNDWATER (10-20 FEET) FORMER PRINTEX FACILITY MOUNTAIN VIEW, CALIFORNIA

FIGURE NO.	4
PROJECT NO	WR0778
DATE	MAY 2005
FILE NO	

P:\GIS\Printex\Project\TCE_Shallow.mxd



Legend

- Groundwater Monitoring Well Location (10-20 ft bgs)
- Groundwater Monitoring Well Location (30-40 ft bgs)
- Site Boundary

ft bgs = feet below ground surface

N

0 50 100 200 Feet

GeoSyntec Consultants

TCE CONCENTRATIONS IN B ZONE GROUNDWATER (30-40 FEET) FORMER PRINTEX FACILITY MOUNTAIN VIEW, CALIFORNIA

FIGURE NO.	5
PROJECT NO.	WR0778
DATE:	MAY 2005
FILE NO	

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APPENDIX 1
CTS Printex Groundwater Chemical Data

Table 2

Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 10-20 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
5W	4/85	2	<1	<1	<1	<1
Well Destroyed	6/85	<1	<1	<1	<1	<1
05/97	8/85	<1	<1	<1	<1	<1
	5/86	<1	<1	<1	<1	<1
	8/86	<1	<1	<1	<1	<1
	9/86	<1	<1	<1	<1	<1
	1/87	<1	<1	<1	<1	<1
	4/87	<1	<1	<1	<1	<1
	3/88	<1	<1	<1	<1	<1
	9/88	<1	<1	<1	<1	<1
	6/89	<1	<1	<1	1.5	<1
	12/89	<1	<1	<1	<1	<1
	5/90	<1	<1	<1	1.5	<1
	11/90	<1	<1	<1	3.2	<1
	5/91	<1	<1	<1	2.9	<1
	11/91	<0.2	0.3	<0.2	2.7	0.28
	5/92	<0.2	0.38	<0.2	2.7	0.31
	8/92	<0.2	0.53	<0.2	3.4	<0.2
	11/92	<0.2	<0.25	<0.2	2.4	0.28
	2/93	0.41	0.53	<0.2	3.4	0.33
	5/93	0.42	0.66	<0.2	3.5	0.35
	8/93	0.46	0.29	<0.2	3.6	<0.2
	2/94	0.22	0.32	<0.2	3.9	0.29
	8/94	0.21	0.23	<0.2	3.4	0.32
	11/94	<0.5	<0.5	<0.5	3.4	<0.5
	2/95	<0.5	<0.5	<0.5	2.7	<0.5
	6/95	<0.5	<0.5	<0.5	1.6	<0.5
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	3.7	<1
	1/96	<0.5	<0.5	<0.5	2	<0.5
	6/96	<1	<1	<1	2.6	<1
	7/96	<1	<1	<1	2.9	<1
	11/96	NS	NS	NS	NS	NS
6W	4/85	2.6	<1	<1	<1	<1
Well Destroyed	6/85	<1	<1	<1	<1	<1
05/97	5/86	<1	<1	<1	<1	<1
	8/86	<1	<1	<1	<1	<1
	9/86	<1	<1	<1	<1	<1
	1/87	<1	<1	<1	<1	<1
	4/87	<1	<1	<1	<1	<1
	3/88	<1	1.3	<1	<1	1
	9/88	<1	<1	<1	<1	<1
	2/92	<0.2	<0.2	<0.2	<0.2	<0.2
	2/93	<0.2	<0.2	<0.2	<0.2	<0.2
	8/94	<0.2	<0.2	<0.2	0.28	<0.2
	11/94	<0.5	<0.5	<0.5	<0.5	<0.5
	2/95	<0.5	<0.5	<0.5	<0.5	<0.5
	6/95	<0.5	<0.5	<0.5	<0.5	<0.5
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	<1
	1/96	<0.5	<0.5	<0.5	<0.5	<0.5
	6/96	<1	<1	<1	<1	<1
	7/96	<1	<1	<1	<1	<1
	11/96	NS	NS	NS	NS	NS

Table 2
Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 10-20 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
7W	8/85	122	<1	<1	<1	<1
	5/86	37	34	7.6	36	11
	8/86	39	35	17	24	12
	9/86	35	36	<1	11	11
	10/86	34	45	<1	16	13
	1/87	37	37	<1	<1	10
	4/87	30	27	3.2	15	3
	10/87	41	25	2.8	12	8.5
	3/88	34	17	3.3	8.9	6.8
	9/88	33	15	1.6	4	3.8
	6/89	29	22	2.3	6.7	6.1
	9/89	43	23	3.7	11	10
	12/89	21	8.8	<1	8.5	3.2
	3/90	19	9.1	<1	7.5	4.7
	5/90	18	9	1.2	5.1	3.1
	9/90	24	9.6	1.9	4.1	5.7
	11/90	20	6.2	1.4	5.3	4
	2/91	16	6.7	1	4.6	3.4
	5/91	16	9.3	6.6	<1	5.4
	8/91	12	4.1	0.68	3.4	2.6
	11/91	15	3.9	1.4	<0.4	2.9
	2/92	16	5.2	1.1	5.3	3.1
	5/92	9.5	1.8	0.83	2.5	0.93
	8/92	14	3.5	1.1	1.8	2.9
	11/92	14	4	1.5	2	3.8
	11/93	12	3.1	2.3	0.4	3.5
	11/94	13	3.4	1.3	4.2	2.8
	10/95	18	3.7	1.2	5.3	2.8
	11/96	NS	NS	NS	NS	NS
	6/97	7.9	<0.5	<0.5	7.7	1.3
	11/00	12	<0.5	<1	<1	<1
	11/01	NS	NS	NS	NS	NS
	11/02	14	1.0	<0.5	3.8	<1.0
	12/03	14	0.56	<0.5	4.8	0.86
	12/04	**26**	**6.3**	**0.9**	**5.3**	**<0.5**
10W	5/86	28	<1	<1	2	<1
	8/86	6.5	<1	<1	<1	2
	9/86	12	<1	<1	1.2	1.8
	10/86	6.4	<1	<1	<1	1.8
	1/87	8.6	3.5	<1	<1	1.8
	4/87	4.9	<1	<1	<1	1.5
	3/88	11	<1	<1	<1	1.1
	9/88	5.3	<1	<1	<1	<1
	6/89	8.1	<1	<1	<1	<1
	12/89	2.2	<1	<1	<1	<1
	5/90	3	<1	<1	<1	<1
	11/90	14	<1	<1	1.2	<1
	5/91	3.1	<1	<1	<1	<1
	11/91	5.5	<0.2	<0.2	<0.2	<0.2
	5/92	0.45	<0.2	<0.2	<0.2	<0.2
	8/92	0.39	<0.2	<0.2	<0.2	<0.2
	11/92	0.77	<0.2	<0.2	<0.2	<0.2
	11/93	2.1	<0.2	<0.2	<0.2	0.45
	11/94	18	<0.5	<0.5	2.1	<0.5
	2/95	10	<0.5	<0.5	0.6	<0.5
	10/95	<1	<1	<1	<1	<1
	1/96	<0.5	<0.5	<0.5	<0.5	<0.5
10W cont'd	11/96	NS	NS	NS	NS	NS

Table 2

Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 10-20 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
	3/97	<1	<1	<1	<1	<1
	10/97	<0.5	<0.5	<0.5	<0.5	<0.5
	12/97	9.6	<0.5	<0.5	<0.5	<0.5
	11/00	10	<0.5	<1	<1	<1
	11/01	<1	<1	<1	<1	<1
	11/02	<0.5	<0.5	<0.5	<1	<1
	12/03	3.8	<0.5	<0.5	<1	<1
	12/04	**4.1**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
12W	5/86	1,500	2,400	420	470	130
	8/86	930	2,300	160	340	230
	9/86	1,100	2,500	<40	540	300
	10/86	770	2,300	150	420	330
	1/87	700	2,300	59	610	160
	4/87	610	1,200	55	200	120
	10/87	760	1,100	98	360	130
	3/88	470	470	66	350	120
	9/88	260	220	27	250	52
	6/89	370	440	55	360	84
	9/89	420	160	56	270	120
	12/89	480	87	48	530	100
	3/90	560	180	37	440	80
	5/90	560	130	56	280	88
	9/90	500	100	95	440	57
	11/90	520	140	47	580	64
	2/91	470	65	56	430	100
	5/91	470	140	62	380	82
	8/91	480	98	63	370	87
	11/91	500	96	75	350	75
	2/92	200	14	<8	69	11
	5/92	500	61	36	300	38
	8/92	450	50	52	300	55
	11/92	530	76	49	360	46
	11/93	400	48	51	260	58
	11/94	130	9.1	<0.5	67	10
	10/95	250	14	<10	74	12
	11/96	77	4	<0.5	24	3.2
	3/97	73	3.3	4.2	35	1.4
	6/97	75	2.9	1.1	21.6	3.1
	10/97	56	<0.5	1.2	22	3.3
	12/97	61	2.2	<0.5	20	2.2
	11/00	27	0.96	<0.5	10	1.3
	11/01	30	1.3	<1	9	1.6
	11/02	28	1.0	<0.5	11	1.2
	12/03	26	0.85	<0.5	8.5	1.2
	12/04	**23**	**1**	**<0.5**	**6.6**	**1**
13W	5/86	110	250	120	1.7	5.7
	8/86	1.3	2.1	<1	<1	2.8
	9/86	<1	<1	<1	<1	13
	10/86	<1	2.2	<1	<1	2.8
	1/87	<1	<1	<1	<1	2.1
	4/87	<1	1.5	<1	<1	2.1
	10/87	<1	1.7	<1	<1	2
	3/88	<1	1.3	<1	<1	1.5
	9/88	<1	<1	<1	<1	1
	6/89	7.3	3.1	<1	<1	1.1
	12/89	<1	<1	<1	<1	<1
	5/90	<1	<1	<1	<1	<1
13W cont'd	11/90	<1	<1	<1	<1	1.3

Table 2

Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 10-20 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
	5/91	<1	<1	<1	<1	1.7
	11/91	0.37	<0.2	<0.2	<0.2	<0.2
	5/92	<0.2	<0.2	<0.2	0.21	0.74
	8/92	<0.2	<0.2	<0.2	0.34	0.66
	11/92	<0.2	<0.2	<0.2	<0.2	0.5
	5/93	<0.2	0.32	<0.2	<0.2	0.38
	11/93	<0.2	<0.2	<0.2	<0.2	0.64
	5/94	<0.2	<0.2	<0.2	<0.2	0.42
	11/94	<0.5	<0.5	<0.5	<0.5	<0.5
	6/95	<1.0	<1.0	<1.0	<1.0	<1.0
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	<1
	1/96	<0.5	<0.5	<0.5	<0.5	<0.5
	6/96	<1	<1	<1	<1	<1
	7/96	<1	<1	<1	<1	<1
	11/96	<0.5	<0.5	<0.5	<0.5	<0.5
	3/97	<1	<1	<1	<1	1.2
	6/97	<0.5	<0.5	<0.5	<0.5	0.7
	10/97	<0.5	<0.5	<0.5	<0.5	<0.5
	12/97	<0.5	<0.5	<0.5	<0.5	0.9
	11/00	<0.5	<0.5	<0.5	<0.5	<0.5
	11/01	NS	NS	NS	NS	NS
	11/02	<0.5	<0.5	<0.5	1.2	0.73
	12/03	<0.5	<0.5	<0.5	3.3	1.1
16W	8/86	3.4	<1	<1	5.5	<1
	9/86	<1	<1	<1	1.2	<1
	10/86	1.1	<1	<1	6.4	0.6
	1/87	1.9	<1	<1	7.8	<1
	4/87	1.4	<1	<1	4.5	<1
	10/87	4.1	<1	<1	5.5	<1
	9/88	2.8	<1	<1	3.6	<1
	6/89	7.2	<1	<1	4	<1
	12/89	7.9	<1	<1	9.4	<1
	5/90	7.7	<1	<1	6.2	<1
	11/90	6.7	<1	<1	7	<1
	5/91	4.3	<1	<1	3.7	<1
	11/91	5.2	<0.2	<0.2	5.3	<0.2
	5/92	4.7	<0.2	<0.2	5.5	<0.2
	8/92	5.5	<0.2	<0.2	5.4	<0.2
	11/92	5.4	<0.2	<0.2	6.4	<0.2
	5/93	7.9	<0.2	<0.2	5.7	<0.2
	5/94	6.6	<0.2	<0.2	4.2	<0.2
	11/94	5.3	<0.5	<0.5	4.8	<0.5
	6/95	10	<1.0	<1.0	6.3	<1.0
	10/95	11	<1	<1	5.4	<1
	6/96	11	<1	<1	6.4	<1
	11/96	NS	NS	NS	NS	NS
	3/97	11	<1	<1	5.2	<1
	10/97	3	<0.5	<0.5	1.9	<0.5
	12/97	6.4	<0.5	<0.5	3.3	<0.5
	11/00	6	<0.5	<1	<1	<1
	11/01	3.7	<1	<1	2.4	<1
	12/02	4.4	<0.5	<0.5	2.4	<1
	12/03	6.4	<0.5	<0.5	3.1	<1
	12/04	5.8	<0.5	<0.5	2.4	<0.5

Table 2
Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 10-20 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
20W	9/86	90	100	<20	83	110
	10/86	110	190	<2	51	22
	10/86	130	210	58	80	<10
	1/87	110	150	<2	110	16
	4/87	190	250	32	87	41
	3/88	38	11	2.3	8.8	3
	9/88	88	72	10	31	12
	6/89	19	20	3.6	9.5	6.2
	8/92	0.7	1.8	0.74	2	1.7
	11/92	0.68	1.2	0.32	1.7	1.4
	5/93	8.2	1.5	0.76	1.9	0.87
	5/94	8.1	1.2	<0.2	1.2	0.36
	8/94	8.1	1.4	0.23	1.8	0.59
	11/94	3.3	1.4	<0.5	3.1	1.7
	8/95	12	<0.5	<0.5	<0.5	<0.5
	10/95	13	1.5	<1	2.2	<1
	6/96	12	<1	<1	2.3	<1
	7/96	11	1.3	<1	2	<1
	11/96	3.3	<0.5	<0.5	1.4	0.7
	3/97	12	1.6	<1	4.7	2.1
	6/97	5.9	<0.5	<0.5	2.7	1.4
	10/97	5.2	0.8	<0.5	2.7	1.4
	12/97	46	4.8	2.4	15	5.1
	11/00	5	<0.5	<1	3	2
	11/01	21	1.8	1.2	7	8.5
	12/02	24	1.6	1.1	11	4.8
	12/03	26	1.6	2.1	14	6.4
	12/04	**32**	**1.6**	**2.4**	**15**	**5**
23W	4/87	3	57	5.5	9.7	29
	12/87	2.6	43	5.9	21	45
	9/88	4.9	45	8.8	28	47
	6/89	4.1	10	4.5	11	19
	9/89	3.5	13	7.3	18	41
	12/89	16	9.9	6.1	52	29
	3/90	2.8	2.3	1	7.6	5.7
	5/90	12	9.1	5.2	23	17
	9/90	3	8.5	10	37	52
	11/90	2.6	5.2	5.8	32	24
	2/91	4.3	4.3	5.1	28	64
	5/91	2.1	3.2	3.4	17	13
	8/91	14	5.3	4.3	33	14
	11/91	4.9	2.8	5.1	23	19
	2/92	2.7	3.8	7.9	38	29
	5/92	2.9	3	9	45	26
	8/92	4.8	2.7	7.7	51	30
	11/92	2.6	2.4	9.3	50	22
	2/93	3.2	3.4	8.5	50	8.5
	5/93	3.4	2.8	9.1	52	27
	8/93	4.3	2.4	8.1	49	22
	2/94	4.5	2	8.3	45	20
	5/94	3.9	1.7	5.4	26	10
	8/94	22	3.9	5.3	31	11
	11/94	17	3.3	6.8	34	11
	2/95	7.5	1.8	5.5	32	10
	6/95	34	5.4	4.9	38	12
	8/95	8.9	<0.5	7.8	<0.5	22
	10/95	8.1	1.5	5	26	9.5
	1/96[c]	2.1	<0.5	1	7.4	2

Table 2

Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 10-20 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)*				
		TCE	TCA	DCE	c/t-DCE	DCA
	6/96	5.3	1.1	3.7	18	6.1
	7/96	8.6	1.3	4.1	25	7.5
	11/96	NS	NS	NS	NS	NS
	3/97	30	4	3.6	26	11
	6/97	0.5	<0.5	0.6	2.6	2
	10/97	34	4.8	5.7	29.5	10.5
	12/97	5.2	1	2	14	4.5
	11/00	4.5	<0.50	<0.50	8	3.8
	11/01	5.8	<1	1.6	10.6	5.7
	12/02	7.2	0.59	1.1	13	5.1
	12/03	7.0	0.62	2.1	14	5.6
	12/04	**6.4**	**0.65**	**2.2**	**13**	**5.5**
25W	4/87	<1	10	<1	9.3	<1
	12/87	<1	5.7	<1	7.8	<1
	9/88	<1	2.9	<1	6.5	<1
	6/89	<1	<1	<1	<1	<1
	9/89	<1	<1	<1	7.2	<1
	12/89	<1	<1	<1	18	<1
	3/90	<1	<1	<1	20	<1
	5/90	<1	<1	<1	9.6	<1
	9/90	<1	<1	<1	14	<1
	11/90	<1	<1	<1	<1	<1
	2/91	<1	<1	<1	14	<1
	5/91	<1	<1	<1	15	<1
	8/91	0.77	<0.4	<0.4	14	<0.4
	11/91	0.74	<0.4	<0.4	12	<0.4
	2/92	0.77	<0.4	<0.4	13	<0.4
	5/92	0.76	<0.4	<0.4	10	<0.4
	8/92	0.82	<0.4	<0.4	11	<0.4
	11/92	0.48	<0.2	<0.2	10	<0.2
	2/93	0.36	<0.2	<0.2	9.2	<0.2
	5/93	0.76	<0.2	<0.2	11	<0.2
	8/93	0.78	<0.2	<0.2	11	<0.2
	2/94	0.87	<0.2	<0.2	11	<0.2
	5/94	1	0.22	<0.2	10	<0.2
	8/94	1	<0.2	<0.2	11	<0.2
	11/94	1.4	<0.5	<0.5	14	<0.5
	2/95	1.7	<0.5	<0.5	15	<0.5
	6/95	<0.5	<0.5	<0.5	2.9	<0.5
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	3.9	<1
	7/96	1.4	<1	<1	12	<1
	11/96	<0.5	<0.5	<0.5	8	<0.5
	3/97	1.6	<1	<1	13	<1
	6/97	2.1	<0.5	<0.5	11	0.5
	12/97	1.6	<0.5	<0.5	9.2	<0.5
	12/00	2.2	<0.5	<0.5	7.7	<0.5
	11/01	NS	NS	NS	NS	NS
	12/02	NS	NS	NS	NS	NS
	12/03	NS	NS	NS	NS	NS
26W	4/87	<1	<1	<1	<1	<1
Well Destroyed	12/87	<1	<1	<1	<1	<1
01/01	9/88	<1	<1	<1	<1	<1
	6/89	<1	<1	<1	<1	<1
	12/89	<1	<1	<1	<1	<1
	5/90	<1	<1	<1	<1	<1
	11/90	<1	<1	<1	<1	1.3
	5/91	<1	<1	<1	<1	<1

Table 2

Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 10-20 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
	11/91	<0.2	<0.2	<0.2	<0.2	1.6
	5/92	<0.2	<0.2	<0.2	<0.2	2.6
26W cont'd	8/92	<0.2	<0.2	<0.2	<0.2	2.8
	11/92	<0.2	<0.2	<0.2	<0.2	3.8
	2/93	<0.2	<0.2	<0.2	<0.2	1.6
	5/93	<0.2	<0.2	<0.2	<0.2	3.2
	8/93	<0.2	<0.2	<0.2	<0.2	3.5
	11/93	0.2	0.2	0.2	0.2	0.83
	2/94	<0.2	<0.2	<0.2	<0.2	3.8
	5/94	<0.2	<0.2	<0.2	<0.2	3.2
	8/94	<0.2	<0.2	<0.2	<0.2	2.5
	11/94	<0.5	<0.5	<0.5	<0.5	1.7
	2/95	<0.5	<0.5	<0.5	<0.5	2.9
	6/95	<0.5	<0.5	<0.5	<0.5	3
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	1.4
	7/96	<1	<1	2.4	<1	<1
	11/96	<0.5	<0.5	<0.5	<0.5	<0.5
	3/97	<1	<1	<1	<1	4.3
	6/97	<0.5	<0.5	<0.5	<0.5	3.1
	12/97	<0.5	<0.5	<0.5	<0.5	1
28W	6/87	<1	<1	<1	3.2	<1
Well Destroyed	8/87	<1	<1	<1	2.5	<1
01/01	9/88	<1	<1	<1	3	<1
	6/89	<1	<1	<1	<1	<1
	12/89	<1	<1	<1	<1	<1
	5/90	<1	<1	<1	<1	<1
	11/90	<1	<1	<1	<1	<1
	5/91	<1	<1	<1	<1	<1
	11/91	<0.2	<0.2	<0.2	0.33	<0.2
	5/92	<0.2	<0.2	<0.2	<0.2	<0.2
	8/92	<0.2	<0.2	<0.2	<0.2	<0.2
	11/92	<0.2	<0.2	<0.2	<0.2	<0.2
	2/93	<0.2	<0.2	<0.2	<0.2	<0.2
	5/93	<0.2	<0.2	<0.2	<0.2	<0.2
	8/93	<0.2	<0.2	<0.2	<0.2	<0.2
	11/93	0.2	0.2	0.2	0.2	0.2
	2/94	<0.2	<0.2	<0.2	<0.2	<0.2
	5/94	<0.2	<0.2	<0.2	<0.2	<0.2
	8/94	<0.2	<0.2	<0.2	<0.2	<0.2
	11/94	<0.5	<0.5	<0.5	<0.5	<0.5
	2/95	<0.5	<0.5	<0.5	<0.5	<0.5
	6/95	<0.5	<0.5	<0.5	<0.5	<0.5
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	<1
	7/96	<1	<1	<1	<1	<1
	11/96	<0.5	<0.5	<0.5	<0.5	<0.5
	3/97	<1	<1	<1	<1	<1
	12/97	<0.5	<0.5	<0.5	<0.5	<0.5
32W[b]	6/87	<1	87	8.9	4.8	25
	8/87	<1	120	7.8	7.3	29
	6/88	<1	68	8.2	7.7	29

Table 2

Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 10-20 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
33W	6/87	<1	<1	<1	<1	1.3
	8/87	<1	<1	<1	<1	2
	9/88	<1	<1	<1	<1	27
	4/89	<1	<1	1.6	<1	4.3
	9/89	<1	1.2	<1	<1	3
	12/89	4.4	<1	2.1	3.6	3.5
	3/90	4.8	<1	1.8	2.6	3.3
	5/90	9.4	<1	3	5	4.3
	9/90	7.6	<1	2.4	4.3	3.6
	11/90	5.8	<1	1.8	3.3	3.2
	2/91	9.8	<1	2.7	4.5	3.4
	5/91	9.7	<1	1.9	3.6	3.3
	8/91	9.2	<0.2	2.6	4.8	3.2
	11/91	8.2	<0.2	2	4.1	3.1
	2/92	6.6	<0.2	1.6	3.2	2.6
	8/92	7.2	<0.2	1.1	2.3	2
	2/93	6.5	0.22	1.1	1.9	2.1
	11/93	6	0.2	0.9	0.2	1.9
	2/94	5.5	<0.2	1.1	1.6	1.8
	5/94	7.9	<0.2	1.4	1.8	2.1
	8/94	6.3	<0.2	1.3	2.1	2.1
	11/94	8.2	<0.5	1.9	—	2.8
	2/95	11	<0.5	2.6	3.4	2.6
	6/95	9	<1.0	<1.0	3.2	2.5
	8/95	7.4	<0.5	<0.5	<0.5	<0.5
	10/95	9.3	<1	1.8	3.4	2.8
	1/96	7.7	<0.5	1.1	2.2	1.6
	6/96	9.9	<1	1.6	3.5	2.6
	7/96	12	<1	2	4.3	2.8
	11/96	NS	NS	NS	NS	NS
	11/00	6	<0.50	1	2.6	1.6
	11/01	NS	NS	NS	NS	NS
	12/02	NS	NS	NS	NS	NS
	12/03	5.6	<0.5	1.2	3.2	1.4
34W	6/87	39	2.3	<20	8.8	<20
	8/87	43	4.6	<1	7.3	2.4
	9/88	45	3.6	1	6.1	1.4
	4/89	33	1.6	1.2	4.2	<1
	9/89	37	2.9	<1	4.7	1
	12/89	32	1.4	<1	7.1	<1
	3/90	37	3	<1	5.8	<1
	5/90	31	2	<1	<1	<1
	9/90	44	3.8	<1	6.4	<1
	11/90	30	1.5	<1	5.9	<1
	2/91	25	1.6	<1	5.4	<1
	5/91	23	1.7	<1	4.5	<1
	8/91	25	1.2	<0.8	1.3	<0.8
	11/91	32	2.1	<1	5.8	<1
	2/92	27	1	<1	4.3	<1
	5/92	22	<1	<1	4.6	<1
	8/92	36	1.9	<1	6.5	<1
	11/92	34	2.2	<1	7.3	<1
	2/93	13	0.82	<0.4	2.6	<0.4
	5/93	21	<1	<1	5	<1
	8/93	28	1.2	<1	6.2	<1
	11/93	24	1.2	<1.0	<1.0	<1.0
	2/94	22	1.2	<1.0	4.3	<1.0
	5/94	19	1.3	<1.0	4.2	<1.0

Table 2

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Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
	8/94	21	1.2	<1.0	5.5	<1.0
34W cont'd	11/94	28	1.5	0.8	----	0.6
	2/95	32	1.3	<0.5	6.5	<0.5
	6/95	13	<1.0	<1.0	2.8	<1.0
	8/95	12	<0.5	<0.5	<0.5	<0.5
	10/95	21	<1	<1	4.2	<1
	1/96	7.8	<0.5	<0.5	0.6	<0.5
	6/96	12	<1	<1	2.5	<1
	7/96	16	<1	<1	3.8	<1
	11/96	NS	NS	NS	NS	NS
	6/97	10	<0.5	<0.5	1.8	<0.5
	11/00	11	<0.5	<1	2	<1
	11/01	15	<1	<1	2.4	<1
	12/02	NS	NS	NS	NS	NS
	12/03	12	<0.5	<0.5	2.3	<1
	12/04	**8.6**	**<0.5**	**<0.5**	**1.6**	**<0.5**
36W	9/87	<1	<1	<1	<1	<1
Well Destroyed	12/87	<1	<1	<1	<1	<1
05/97	2/88	<1	<1	<1	<1	<1
	3/88	<1	<1	<1	<1	<1
	9/88	<1	3.3	<1	<1	<1
	6/89	<1	<1	<1	<1	<1
	9/89	<1	<1	<1	<1	<1
	12/89	<1	<1	<1	<1	<1
	3/90	<1	1.3	<1	<1	<1
	5/90	<1	1.1	<1	<1	<1
	9/90	<1	1.8	<1	<1	<1
	11/90	<1	1	<1	<1	<1
	2/91	<1	1.4	<1	<1	<1
	5/91	<1	3.3	<1	<1	<1
	8/91	<0.2	1.1	0.5	<0.2	<0.2
	11/91	<0.2	3.7	0.44	<0.2	0.75
	2/92	<0.2	1.8	1.5	<0.2	0.61
	5/92	<0.2	0.87	1.6	<0.2	0.68
	8/92	<0.2	1.8	1.1	<0.2	0.68
	11/92	<0.2	3.7	<0.2	<0.2	0.7
	2/93	<0.2	1.4	<0.2	<0.2	0.45
	5/93	<0.2	1.3	0.52	<0.2	0.43
	8/93	<0.2	2.6	0.98	<0.2	0.93
	11/93	<0.2	2.1	<0.2	<0.2	1
	2/94	<0.2	2.2	<0.2	<0.2	0.75
	5/94	<0.2	2.3	<0.2	<0.2	0.67
	8/94	<0.2	0.59	<0.2	<0.2	0.28
	11/94	<0.5	0.8	<0.5	<0.5	<0.5
	2/95	<0.5	1.6	<0.5	<0.5	<0.5
	6/95	<0.5	0.7	<0.5	<0.5	<0.5
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	<1
	7/96	<1	<1	<1	<1	<1
	11/96	NS	NS	NS	NS	NS
38W	10/89	50	5	<1	6	<1
	12/89	46	3.5	<1	10	<1
	3/90	25	2.3	<1	2.8	<1
	5/90	54	4.4	<1	<1	<1

Table 2

Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 10-20 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
	9/90	43	2.2	2.2	5.3	<1
38W cont'd	11/90	60	3	<2	5.2	<2
	2/91	45	3.9	<2	3.2	<2
	5/91	38	3.4	<1	4.5	<1
	11/91	42	2.5	1.2	5.2	<1
	2/92	45	2	1.7	4.6	<0.2
	5/92	35	1.1	2.5	3.5	<1
	8/92	34	2.9	<1	2.9	<1
	11/92	33	2.1	<1	4.1	<1
	2/93	32	2.6	<1	3	<1
	5/93	34	2.4	1.2	3.2	1.1
	8/93	32	2	1.2	3.4	<0.8
	11/93	44	2.9	1.5	<1.0	<1.0
	2/94	28	1.9	<1.0	2.9	<1.0
	5/94	22	2.5	<0.8	2.2	<0.8
	8/94	37	2.5	<0.8	4.3	<0.8
	11/94	41	2.6	0.8	5.4	0.7
	2/95	49	2.5	<0.5	4.7	<0.5
	6/95	38	1.9	<1.0	4.1	<1.0
	8/95	35	<0.5	<0.5	<0.5	<0.5
	10/95	50	2.1	<1	4.6	<1
	1/96	18	1.4	<0.5	1.7	<0.5
	6/96	29	<1	<1	4.3	<1
	7/96	45	1.6	<1	4.5	<1
	11/96	NS	NS	NS	NS	NS
	6/97	7.9	1.8	1.1	2.5	1
	11/02	22	<0.5	<0.5	1.3	<1
	12/03	19	0.55	<0.5	1.6	<1
	12/04	**12**	**<0.5**	**<0.5**	**1.7**	**<0.5**
39W	8/92	39	<1	<1	6	<1
Well Destroyed	11/92	33	<1	<1	4.9	<1
12/98	2/93	42	<1	<1	5.6	<1
	5/93	34	<1	<1	5.9	<1
	8/93	35	<1	<1	5.5	<1
	11/93	37	<1.0	<1.0	6	<1.0
	2/94	31	<1.0	<1.0	5.1	<1.0
	5/94	34	<1.0	<1.0	5.5	<1.0
	8/94	33	<1.0	<1.0	5.8	<1.0
	11/94	32	<0.5	<0.5	7.2	<0.5
	2/95	43	<0.5	<0.5	6.8	<0.5
	6/95	28	<0.5	<0.5	7.3	<0.5
	8/95	30	<0.5	<0.5	5.6	<0.5
	10/95	42	<1	<1	7.6	<1
	1/96	28	<0.5	<0.5	4.8	<0.5
	7/96	38	<1	<1	8.3	<1
	11/96	NS	NS	NS	NS	NS
	3/97	33	<1	<1	7.7	<1
	12/97	33	<0.5	<0.5	7.7	<0.5
DRUM	11/00	8.3	<5.0	<5.0	9.1	<5.0
	11/01	24	<1	<1	23	7.5
	12/02	13	<0.5	1.2	16	3.1
	12/03	24	0.64	5.2	39	7.1
	12/04	**<5.0**	**<0.5**	**0.5**	**9.1**	**1.6**

a. TCE=trichloroethene; TCA=1,1,1-trichloroethane; DCE=1,1-dichloroethene; c/t-DCE=cis/trans-1,2-dichloroethene; DCA=1,1- and 1,2-dichloroethane

b. Monitoring well 32W was converted to extraction well ES4W.

c. Laboratory reported 1.2 mg/L vinyl chloride in sample collected from monitoring well 23W during 1/96 sampling event.

Table 3
Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 30-40 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[1]				
		TCE	TCA	DCE	c/t-DCE	DCA
8W	8/85	123	<1	<1	<1	<1
	5/86	250	440	300	14	20
	8/86	7,500	13,000	1,000	<55	<35
	9/86	3,000	9,300	<100	<100	<120
	10/86	3,500	10,000	<100	<100	<100
	1/87	3,000	5,900	<2	<2	<2
	4/87	1,700	4,200	<100	<100	<100
	10/87	210	140	16	<4	19
	3/88	150	48	11	<5	13
	9/88	140	25	6.5	2	8.9
	6/89	49	4.9	2.4	<2	3
	3/90	26	1.8	<1	1.5	<1
	8/92	51	<1.0	2.1	<1.0	1.5
	11/92	21	<0.8	0.82	1.1	<0.8
	11/93	20	0.8	0.86	0.8	1.6
	11/94	31	10	1.7	5.6	<0.5
	10/95	9.2	<1	<1	<1	<1
	11/96	NS	NS	NS	NS	NS
	6/97	8.4	<0.5	<0.5	<0.5	<0.5
	11/00	25	3	<1	4	<1
	11/01	NS	NS	NS	NS	NS
	11/02	28	6.3	0.64	5.7	<1
	12/03	27	5.1	0.74	5.8	<1
	12/04	**12**	**0.8**	**<0.5**	**2.7**	**0.6**
9W	5/86	9.3	1.3	2.1	<1	<1
	8/86	14	4.5	<1	<1	<1
	9/86	26	<2	<2	2.2	<2
	10/86	3.7	2.1	<1	<1	<1
	1/87	14	1.2	<1	<1	<1
	4/87	6.8	2.3	<1	<1	<1
	3/88	4.4	1.9	<1	<1	<1
	9/88	1.3	1.3	<1	<1	<1
	6/89	1.3	1.9	<1	<1	<1
	12/89	28	<1	<1	2	<1
	5/90	41	<1	<1	2.9	<1
	11/90	6.8	<1	<1	<1	<1
	5/91	2.1	1.6	<1	<1	<1
	11/91	7.7	1.5	0.39	0.89	0.57
	5/92	7.8	0.51	0.26	0.38	<0.2
	8/92	1.7	0.94	0.34	<0.2	0.29
	11/92	0.7	0.79	0.34	<0.2	0.26
	11/93	0.71	0.99	0.79	<0.2	0.64
	11/94	1.8	<0.5	<0.5	<0.5	<0.5
	2/95	3.6	1.3	<0.5	<0.5	<.05
	10/95	<1	1	<1	<1	<1
	1/96	<0.5	<0.5	<0.5	<0.5	<0.5
	11/96	NS	NS	NS	NS	NS
	3/97	2.4	<1	<1	<1	<1
	10/97	<0.5	<0.5	0.6	<0.5	<0.5
	12/97	15	0.9	<0.5	2.4	0.5
	11/00	<1	<0.5	<1	<1	<1
	11/01	<1	<1	<1	<1	<1
	11/02	<0.5	0.6	<0.5	<1	<1
	12/03	5.3	<0.5	0.66	1.5	<1
	12/04	**1.2**	**<0.5**	**0.8**	**0.7**	**<0.5**

Table 3
Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 30-40 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
11W	5/86	93	42	11	220	120
	8/86	42	8.7	29	69	180
	9/86	120	24	<10	240	330
	10/86	84	36	70	170	340
	1/87	58	1.9	24	110	170
	4/87	32	<1	26	84	160
	10/87	47	<4	12	74	110
	9/88	19	<1	6.6	28	39
	6/89	16	<1	6.3	19	28
	9/89	21	<1	5.9	24	37
	12/89	27	<1	5.7	63	33
	3/90	17	<1	2	35	24
	5/90	17	<1	2.7	2.1	16
	9/90	20	<1	4.6	36	27
	11/90	16	<1	2.3	30	19
	2/91	12	<1	2	25	15
	5/91	7.8	<1	1.9	13	11
	8/91	14	<1	3.5	26	15
	11/91	15	<1	2.8	24	16
	2/92	12	<0.8	1.2	15	10
	5/92	6.8	<0.2	0.97	7.9	5.3
	8/92	8.9	<0.4	1.8	15	10
	11/92	11	<0.4	2.4	18	13
	11/93	6.5	<0.2	1	<0.2	4.9
	11/94	7.1	<0.5	1.1	6.4	2
	10/95	5.8	<1	<1	3.4	1.7
	11/96	2.8	<0.5	0.5	4.3	1.2
	3/97	2.8	<1	<1	2.4	1.3
	6/97	6.9	<0.5	1.4	4.4	3.2
	10/97	8.2	<0.5	2.1	9.6	5.8
	12/97	9.6	<0.5	1.3	15	8
	11/00	48	<0.5	8.7	48	16
	11/01	30	<1	5.5	26	13
	11/02	59	<1	8.2	69	15
	12/03	45	<0.5	8.5	68	13
	12/04	**3.9**	**<0.5**	**<0.5**	**4.4**	**1**
14W	5/86	<1	10	1.7	<1	1.3
	8/86	160	1,000	<7	2.5	7.2
	9/86	130	890	<20	<20	<20
	10/86	170	900	<20	<20	<20
	1/87	300	1,100	16	<1	4.7
	4/87	190	690	24	<5	<5
	10/87	270	210	21	<10	<10
	9/88	150	58	9.6	1	1.5
	6/89	120	43	7.4	<5	<5.0
	12/89	79	15	5.4	<1.0	<1.0
	5/90	88	17	4.5	<1.0	<1.0
	11/90	74	12	2.8	<2.0	<2.0
	5/91	73	11	<2	<2	3.5
	11/91	64	7.4	3.9	<2.0	<2.0
	5/92	14	<0.4	0.78	<0.4	<0.4
	8/92	51	3.5	1.3	<1.0	<1.0
	11/92	34	1.8	<0.8	<0.8	<0.8
	5/93	10	0.41	<0.4	<0.4	<0.4
	12/93	20	1.3	0.86	<0.4	<0.80
	5/94	8.9	0.49	0.25	0.28	<0.2
	11/94	44	3.3	2.6	2.1	<0.5

Table 3
Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 30-40 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
	6/95	31	1.7	<1.0	1.4	<1.0
	10/95	24	<1	<1	1.3	<1
	6/96	35	2.3	1.5	1.9	<1
	11/96	20	1	0.9	<0.5	<0.5
14W cont'd	3/97	15	<1	<1	<1	<1
	6/97	15	0.7	0.6	1	<0.5
	10/97	8.7	<0.5	<0.5	<0.5	<0.5
	12/97	33	2.3	<0.5	1.9	0.6
	11/00	11	<0.5	<0.5	<0.5	<0.5
	11/01	13	<1	<1	<1	<1
	11/02	6.5	<0.5	<0.5	<1	<1
	12/03	9.5	<0.5	<0.5	<1	<1
	12/04	**<0.5**	**<0.5**	**0.5**	**4.5**	**1**
15W	8/86	29	<1	<1	3.8	<1
	9/86	54	13	<1	14	<1
	10/86	8.4	<1	<1	3.3	<1
	1/87	12	<1	<1	3.6	<1
	4/87	8.7	<1	<1	2.8	<1
	10/87	15	<1	<1	3.3	<1
	9/88	13	<1	<1	2.3	<1
	6/89	16	<1	<1	2.3	<1
	12/89	14	<1	<1	5.2	<1
	5/90	13	<1	<1	3.2	<1
	11/90	14	<1	<1	4.3	<1
	2/91	<1	<1	<1	<1	<1
	5/91	9.4	<1	<1	2.7	<1
	11/91	11	<0.2	<0.2	3	<0.2
	5/92	11	<0.4	<0.4	2.5	<0.4
	8/92	15	<0.4	<0.4	2.5	<0.4
	11/92	13	<0.4	<0.4	3.2	<0.4
	5/93	8	<0.4	<0.4	2.3	<0.4
	11/93	13	0.4	0.4	0.4	0.4
	5/94	13	<0.4	<0.4	3.5	<0.4
	11/94	13	<0.5	<0.5	4	<0.5
	6/95	31	<1.0	<1.0	3	<1.0
	10/95	9.6	<1	<1	2	<1
	6/96	9.8	<1	<1	2.3	<1
	11/96	NS	NS	NS	NS	NS
	3/97	14	<1	<1	3.1	<1
	10/97	9.5	<0.5	<0.5	1.8	<0.5
	12/97	11	<0.5	<0.5	3.5	<0.5
	11/00	8	<0.5	<1	2	<1
	11/01	10	<1	<1	1.9	<1
	12/02	9.2	<0.5	<0.5	2.1	<1
	12/03	8.9	<0.5	<0.5	2.8	<1
	12/04	**9.1**	**<0.5**	**<0.5**	**3.4**	**<0.5**
17W	6/89	120	14	41	98	120
	9/89	78	6.1	28	72	88
	12/89	89	4.9	26	130	71
	3/90	320	12	350	520	70
	5/90	310	8.5	110	300	190
	9/90	160	<10	77	380	310
	11/90	200	<10	140	550	310
	2/91	170	<10	110	430	280
	5/91	180	<10	50	190	110
	8/91	380	<10	120	510	280

Table 3
Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 30-40 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
	11/91	99	<4	27	110	64
	2/92	82	<2	23	96	59
	5/92	190	<10	46	330	190
	8/92	98	<4.0	21	120	75
	11/92	180	<10	71	330	190
	5/93	57	<2	11	69	54
17W cont'd	11/93	190	<10	57	<10	120
	5/94	52	<10	19	81	77
	11/94	150	1.8	58	230	110
	6/95	33	<1.0	9.7	65	74
	10/95	28	<1	8.2	44	54
	6/96	19	<1	4.8	28	33
	11/96	NS	NS	NS	NS	NS
	6/97	280	<0.5	88	444	220
	10/97	160	<0.5	86	323	170
	12/98	120	<0.5	35	190	<0.5
	11/99	350	<1	130	530	170
	11/00	290	<0.5	69	380	100
	11/01	220	<1	66	259	81
	12/02	250	<0.5	45	380	73
	12/03	230	<0.5	54	406	71
	12/04	**170**	**<0.5**	**37**	**326**	**51**
19W	9/86	<1	<1	<1	<1	<1
	10/86	<1	<1	<1	<1	<1
	1/87	<1	1.1	<1	<1	<1
	4/87	<1	<1	<1	<1	<1
	3/88	<1	1.2	<1	<1	1.3
	9/88	<1	<1	<1	<1	<1
	6/89	<1	<1	<1	<1	<1
	12/89	<1	<1	<1	<1	<1
	5/90	<1	<1	<1	<1	<1
	11/90	<1	<1	<1	<1	<1
	5/91	<1	<1	<1	<1	<1
	11/91	<0.2	<0.2	<0.2	<0.2	<0.2
	5/92	<0.2	<0.2	<0.2	<0.2	<0.2
	8/92	<0.2	0.54	<0.2	<0.2	<0.2
	11/92	<0.2	0.26	<0.2	<0.2	<0.2
	5/93	<0.2	<0.2	<0.2	<0.2	<0.2
	11/93	0.2	0.25	0.2	0.2	<0.47
	5/94	<0.2	<0.2	<0.2	<0.2	<0.2
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	<1
	6/96	<1	<1	<1	<1	<1
	7/96	<1	<1	<1	<1	<1
	11/96	NS	NS	NS	NS	NS
	3/97	<1	<1	<1	<1	<1
	12/97	<0.5	<0.5	<0.5	<0.5	<0.5
	11/00	<1	<0.5	<1	<1	<1
	11/01	NS	NS	NS	NS	NS
	12/02	<0.5	<0.5	<0.5	<1	<1
	12/03	<0.5	<0.5	<0.5	<1	<1
	12/04	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
21W	4/87	<1	<1	<1	<1	<1
	12/87	<1	<1	<1	<1	<1
	9/88	<1	11	1.5	2.2	8.7
	6/89	<1	<1	<1	<1	<1

Table 3
Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 30-40 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[1]				
		TCE	TCA	DCE	c/t-DCE	DCA
	12/89	<1	<1	<1	<1	<1
	5/90	<1	<1	<1	<1	<1
	11/90	<1	<1	<1	<1	<1
	5/91	<1	<1	<1	<1	1.2
	11/91	<0.2	<0.2	<0.2	<0.2	<0.2
	5/92	<0.2	<0.2	<0.2	<0.2	<0.2
	8/92	<0.2	<0.2	<0.2	<0.2	<0.2
	11/92	<0.2	<0.2	<0.2	<0.2	<0.2
21W cont'd	2/92	<0.2	<0.2	<0.2	<0.2	<0.2
	5/93	<0.2	<0.2	<0.2	<0.2	1
	8/93	<0.2	<0.2	<0.2	<0.2	0.9
	11/93	0.2	0.2	0.2	0.2	4.1
	2/94	<0.2	<0.2	<0.2	<0.2	4.7
	5/94	<0.2	<0.2	<0.2	<0.2	2.9
	8/94	<0.2	<0.2	<0.2	<0.2	3.7
	11/94	<0.5	<0.5	<0.5	<0.5	3.4
	2/95	<0.5	<0.5	<0.5	<0.5	2.8
	6/95	<0.5	<0.5	<0.5	<0.5	1.5
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	2.5
	7/96	<1	<1	<1	<1	3.6
	11/96	<0.5	<0.5	<0.5	<0.5	4.2
	3/97	<1	<1	<1	<1	3.5
	6/97	<0.5	<0.5	<0.5	<0.5	4
	12/97	<0.5	<0.5	<0.5	<0.5	3.6
	11/00	<0.5	<0.5	<0.5	<0.5	2
	11/01	<1	<1	<1	<1	2.1
	12/02	NS	NS	NS	NS	NS
	12/03	NS	NS	NS	NS	NS
22W	4/87	<1	1.9	<1	<1	2.3
	12/87	<1	2.1	<1	<1	<2.5
	9/88	<1	<1	<1	<1	8.6
	6/89	<1	<1	<1	<1	<1
	9/89	<1	<1	<1	<1	<1
	12/89	<1	<1	<1	<1	<1
	3/90	<1	4.3	1	3.2	10
	5/90	<1	4	1	3.4	8.4
	9/90	<1	<1	<1	<1	<1
	11/90	<1	<1	<1	<1	<1
	2/91	<1	<1	<1	<1	<1
	5/91	<1	<1	<1	<1	<1
	8/91	<0.2	1.7	1.9	8.1	5.8
	11/91	<0.2	<0.2	<0.2	0.7	0.43
	2/92	<0.2	<0.2	<0.2	1.2	1.1
	5/92	<0.2	<0.2	<0.2	0.68	0.54
	8/92	<0.2	<0.2	<0.2	0.23	0.2
	11/92	<0.2	<0.2	<0.2	1.5	1.2
	2/93	<0.2	<0.2	<0.2	<0.2	<0.2
	5/93	<0.2	<0.2	<0.2	<0.2	<0.2
	8/93	<0.2	<0.2	<0.2	<0.2	<0.2
	11/93	0.2	0.2	0.64	0.2	1.7
	2/94	<0.2	<0.2	<0.2	0.23	<0.2
	5/94	<0.2	<0.2	<0.2	0.59	0.36
	8/94	0.54	0.9	2.2	9	4.4
	11/94	0.9	1.1	2.7	13	5.3
	2/95	<0.5	<0.5	<0.5	4.1	1
	6/95	<1.0	<1.0	<1.0	2.1	<1.0

Table 3
Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 30-40 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	<1
	1/96	<0.5	<0.5	<0.5	<0.5	<0.5
	6/96	<1	<1	<1	<1	<1
	7/96	<1	<1	<1	<1	<1
	11/96	NS	NS	NS	NS	NS
	3/97	<1	<1	<1	2.6	1.3
	12/97	0.8	<0.5	<0.5	4.6	1.3
22W cont'd	11/00	3.6	<0.50	1	4.3	<0.50
	11/01	2	<1	<1	2.7	<1
	11/02	6.2	<0.5	0.75	6.3	1.3
	12/03	7.1	<0.5	1.2	5.2	1.3
	12/04	**4.8**	**<0.5**	**1**	**3.9**	**0.9**
24W[b]	4/87	13	78	<2	<2	<2
	12/87	9.7	8.6	<1	<1	<1
	6/88	5.7	3.8	<1	<1	<1
27W	6/87	<1	<1	<1	<1	<1
Well Destroyed	8/87	<1	<1	<1	<1	<1
05/97	9/88	<1	<1	<1	<1	<1
	6/89	<1	<1	<1	3.1	<1
	12/89	<1	<1	<1	6.7	<1
	5/90	<1	<1	<1	5.2	<1
	11/90	<1	<1	<1	6.4	<1
	5/91	<1	<1	<1	4.6	<1
	11/91	<0.2	<0.2	<0.2	4.1	<0.2
	5/92	<0.2	<0.2	<0.2	3.9	<0.2
	8/92	<0.2	<0.2	<0.2	2.2	<0.2
	11/92	<0.2	<0.2	<0.2	3.8	<0.2
	2/93	<0.2	<0.2	<0.2	0.92	<0.2
	5/93	<0.2	<0.2	<0.2	1.7	<0.2
	8/93	0.4	<0.2	<0.2	5.2	<0.2
	11/93	0.4	0.2	0.2	0.2	0.2
	2/94	0.21	<0.2	<0.2	2.7	<0.2
	5/94	<0.2	<0.2	<0.2	1.4	<0.2
	8/94	0.47	<0.2	<0.2	4.3	<0.2
	11/94	0.6	<0.5	<0.5	5.7	<0.5
	2/95	<0.5	<0.5	<0.5	4.9	<0.5
	6/95	<0.5	<0.5	<0.5	1.1	<0.5
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	<1
	7/96	<1	<1	<1	1.3	<1
	11/96	<0.5	<0.5	<0.5	2.1	<0.5
	3/97	<1	<1	<1	2.1	<1
29W	6/87	<1	49	2.8	1.6	2.5
Well Destroyed	8/87	<1	42	1.7	1.5	2
05/97	9/88	2.8	34	3.6	2.4	3
	6/89	2.9	13	2.3	1.9	2.7
	9/89	2.5	12	2.6	1.9	2.6
	12/89	3.2	15	5.2	<1	3.4
	3/90	4.2	14	3.9	<1	2.8
	5/90	3.4	7.4	2.6	3.3	1.9
	9/90	2.8	5.4	4.2	3.2	1.9
	11/90	3.9	8.4	3.5	3.5	2.5
	2/91	3.4	5.8	3.1	3.2	2
	5/91	2.9	4.3	1.8	2.6	1.9

Table 3
Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 30-40 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
	8/91	3.2	2.8	1.8	4.3	1.5
	11/91	3.1	2.9	2.3	3.3	1.8
	2/92	3.4	4.2	2.3	3.2	1.7
	5/92	2.9	0.59	1.7	3.1	1.3
	8/92	2.4	1.7	1.7	2.5	1.2
	11/92	3.1	3	1.6	2.9	1.5
	2/93	0.99	0.96	0.61	1	0.46
	5/93	2	0.86	0.69	2	0.51
	8/93	3.7	2	2.4	3.7	1.5
29W cont'd	11/93	3.8	2.2	2.1	<0.2	1.8
	2/94	3.7	2	1.5	3.1	1.3
	5/94	4.7	2	1.6	4.3	1.3
	8/94	3.8	1.2	1.7	3.7	0.99
	11/94	4.4	1.4	1.6	5	1.3
	2/95	5.3	1.3	1.1	4.1	0.7
	6/95	<0.5	<0.5	<0.5	<0.5	<0.5
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	<1
	7/96	<1	<1	<1	<1	<1
	11/96	NS	NS	NS	NS	NS
31W	6/87	<1	4.2	<1	<1	1.4
Well Destroyed	8/87	<1	12	<1	1.1	4.4
01/01	9/88	<1	<1	<1	<1	<1
	6/89	<1	11	<1	<1	<1
	9/89	<1	2.7	<1	<1	<1
	12/89	<1	1.7	<1	<1	<1
	3/90	<1	4.5	<1	<1	<1
	5/90	<1	<1	<1	<1	<1
	9/90	<1	2.9	<1	<1	<1
	11/90	<1	3.6	<1	<1	<1
	2/91	<1	3.2	<1	<1	<1
	5/91	<1	2.9	<1	<1	<1
	8/91	<0.2	2.1	<0.2	<0.2	<0.2
	11/91	<0.2	1.5	0.4	<0.2	0.22
	2/92	<0.2	1.6	<0.2	<0.2	<0.2
	5/92	<0.2	<0.2	<0.2	<0.2	<0.2
	8/92	<0.2	0.94	<0.2	<0.2	<0.2
	11/92	<0.2	0.45	<0.2	<0.2	<0.2
	2/93	<0.2	0.43	<0.2	<0.2	<0.2
	5/93	<0.2	<0.2	<0.2	<0.2	<0.2
	8/93	<0.2	1.4	0.43	<0.2	0.24
	11/93	<0.2	0.95	0.28	<0.2	0.4
	2/94	<0.2	0.57	<0.2	<0.2	<0.2
	5/94	<0.2	<0.2	<0.2	<0.2	<0.2
	8/94	<0.2	0.32	<0.2	<0.2	<0.2
	11/94	<0.5	<0.5	<0.5	0.6	<0.5
	2/95	0.9	<0.5	<0.5	2.3	1.2
	6/95	<0.5	<0.5	<0.5	<0.5	<0.5
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	<1
	7/96	<1	<1	<1	<1	<1
	11/96	<0.5	<0.5	<0.5	<0.5	<0.5
	3/97	<1	<1	<1	<1	<1
	6/97	<0.5	<0.5	<0.5	<0.5	<0.5
	10/97	<0.5	<0.5	<0.5	<0.5	<0.5
	12/97	0.6	0.8	<0.5	4.2	2.5

Table 3
Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 30-40 Foot Zone Only
Former Printex Facility
Mountain View, CA

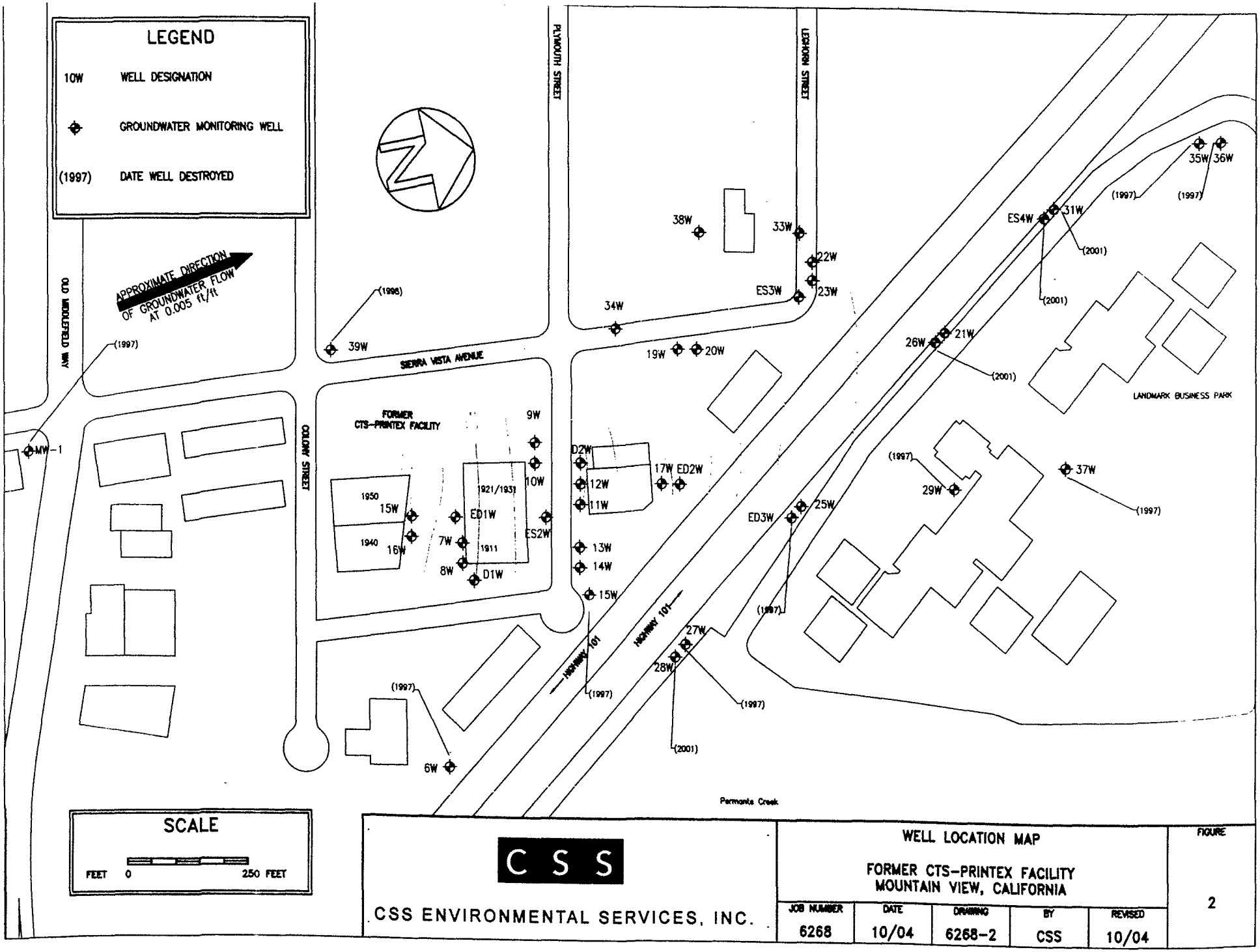
Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
35W	9/87	<1	<1	<1	<1	<1
Well Destroyed	12/87	<1	<1	<1	<1	<1
05/97	2/88	<1	<1	<1	<1	<1
	3/88	<1	<1	<1	<1	<1
	9/88	<1	<1	<1	<1	<1
	6/89	<1	<1	<1	<1	1.2
	9/89	<1	<1	<1	<1	1.3
	12/89	<1	<1	<1	<1	1
	3/90	<1	<1	<1	<1	1.5
	5/90	<1	<1	1.4	<1	<1
	9/90	<1	<1	<1	<1	1.8
	11/90	<1	<1	<1	<1	1.8
	2/91	<1	<1	<1	<1	1.7
	5/91	<1	1.1	<1	<1	1.9
	8/91	<0.2	0.61	<0.2	<0.2	1.5
	11/91	<0.2	0.6	<0.2	<0.2	1.7
	2/92	<0.2	0.58	0.45	<0.2	1.6
	5/92	<0.2	0.91	0.24	<0.2	1.9
	8/92	<0.2	0.67	<0.2	<0.2	1.6
	11/92	<0.2	0.91	<0.2	<0.2	2.1
	2/93	<0.2	1.6	<0.2	<0.2	2.1
	5/93	<0.2	2.3	1	<0.2	3
	8/93	<0.2	2.1	0.98	<0.2	2.8
	11/93	<0.2	2.4	0.26	<0.2	3.4
	2/94	<0.2	3	0.34	<0.2	3.7
	5/94	<0.2	2.6	0.21	<0.2	3.5
	8/94	<0.2	3.5	0.56	<0.2	4
	11/94	<0.5	3.7	<0.5	<0.5	4.4
	2/95	<0.5	5.6	<0.5	<0.5	5
	6/95	<0.5	4.4	1.3	<0.5	4.4
	8/95	<0.5	<0.5	<0.5	<0.5	5.2
	10/95	<1	7.1	1	<1	6.6
	7/96	<1	7.8	1.5	<1	7.6
	11/96	NS	NS	NS	NS	NS
37W	9/87	<1	3.6	<1	<1	<1
Well Destroyed	12/87	<1	18	<1	<1	1.5
05/97	2/88	<1	6	<1	<1	<1
	3/88	<1	6	<1	<1	1.5
	9/88	<1	9.3	<1	<1	1.5
	6/89	<1	5.2	<1	<1	1.3
	9/89	<1	14	1.1	<1	1.3
	12/89	<1	11	2	<1	<1
	3/90	<1	5.9	<1	<1	1.2
	5/90	<1	4	<1	<1	<1
	9/90	<1	5.3	3.4	<1	1.1
	11/90	<1	8	1.7	<1	1.2
	2/91	<1	4.4	<1	<1	<1
	5/91	<1	4.8	<1	<1	1.3
	8/91	<0.2	3.6	0.5	<0.2	1
	11/91	<0.2	2.9	0.63	<0.2	0.8
	2/92	<0.2	2.4	1.6	<0.2	1
	5/92	<0.2	2.2	0.75	<0.2	0.82
	8/92	<0.2	2.2	1	<0.2	0.89
	11/92	<0.2	2.9	0.62	<0.2	0.75
	2/93	<0.2	1.7	0.43	<0.2	0.92
	5/93	<0.2	<0.2	<0.2	<0.2	<0.2
	11/93	<4.0	<4.0	<4.0	<4.0	<8.0

Table 3
Groundwater Chemical Data Summary - Halocarbons
Wells Screened in the 30-40 Foot Zone Only
Former Printex Facility
Mountain View, CA

Well Designation	Sampling Date	Chemical Concentration - Method 8010 (ug/L)[a]				
		TCE	TCA	DCE	c/t-DCE	DCA
	2/94	<4.0	<4.0	<4.0	<4.0	<4.0
	5/94	<0.2	0.71	<0.2	<0.2	0.39
	8/94	<0.2	0.96	0.45	<0.2	0.93
	11/94	<0.5	0.7	<0.5	<0.5	1.1
	2/95	<0.5	<0.5	<0.5	<0.5	0.7
	6/95	<0.5	<0.5	<0.5	<0.5	0.74
	8/95	<0.5	<0.5	<0.5	<0.5	<0.5
	10/95	<1	<1	<1	<1	1
	7/96	<1	<1	<1	<1	1.2
37W cont'd	11/96	NS	NS	NS	NS	NS
D1W	9/86	<0.2	<0.2	<0.2	<0.2	<0.2
	10/86	<0.2	<0.2	<0.2	<0.2	<0.2
	9/88	<0.2	<0.2	<0.2	<0.2	<0.2
	6/89	<0.2	<0.2	<0.2	<0.2	<0.2
	11/92	<0.2	<0.2	<0.2	<0.2	<0.2
	5/93	<0.2	<0.2	<0.2	<0.2	<0.2
	10/93	<0.2	<0.2	<0.2	<0.2	<0.2
	11/00	<1	<0.5	<1	<1	<1
D2W	9/86	<0.2	<0.71	<0.2	<0.2	<0.2
	10/86	<0.2	1.0	<0.2	<0.2	<0.2
	9/88	<0.2	<0.2	<0.2	<0.2	<0.2
	6/89	<0.2	<0.2	<0.2	<0.2	<0.2
	11/92	<0.2	<0.2	<0.2	<0.2	<0.2
	5/93	<0.2	<0.2	<0.2	<0.2	<0.2
	11/93	<0.2	<0.4	<1	<1	<1
	11/00	<0.5	<0.5	<0.5	<0.5	<0.5

a. TCE=trichloroethene; TCA=1,1,1-trichloroethane; DCE=1,1-dichloroethene; c/t-DCE=cis/trans-1,2-dichloroethene; DCA=1,1- and 1,2-dichloroethane

b. Monitoring well 24W was converted to extraction well ED3W.



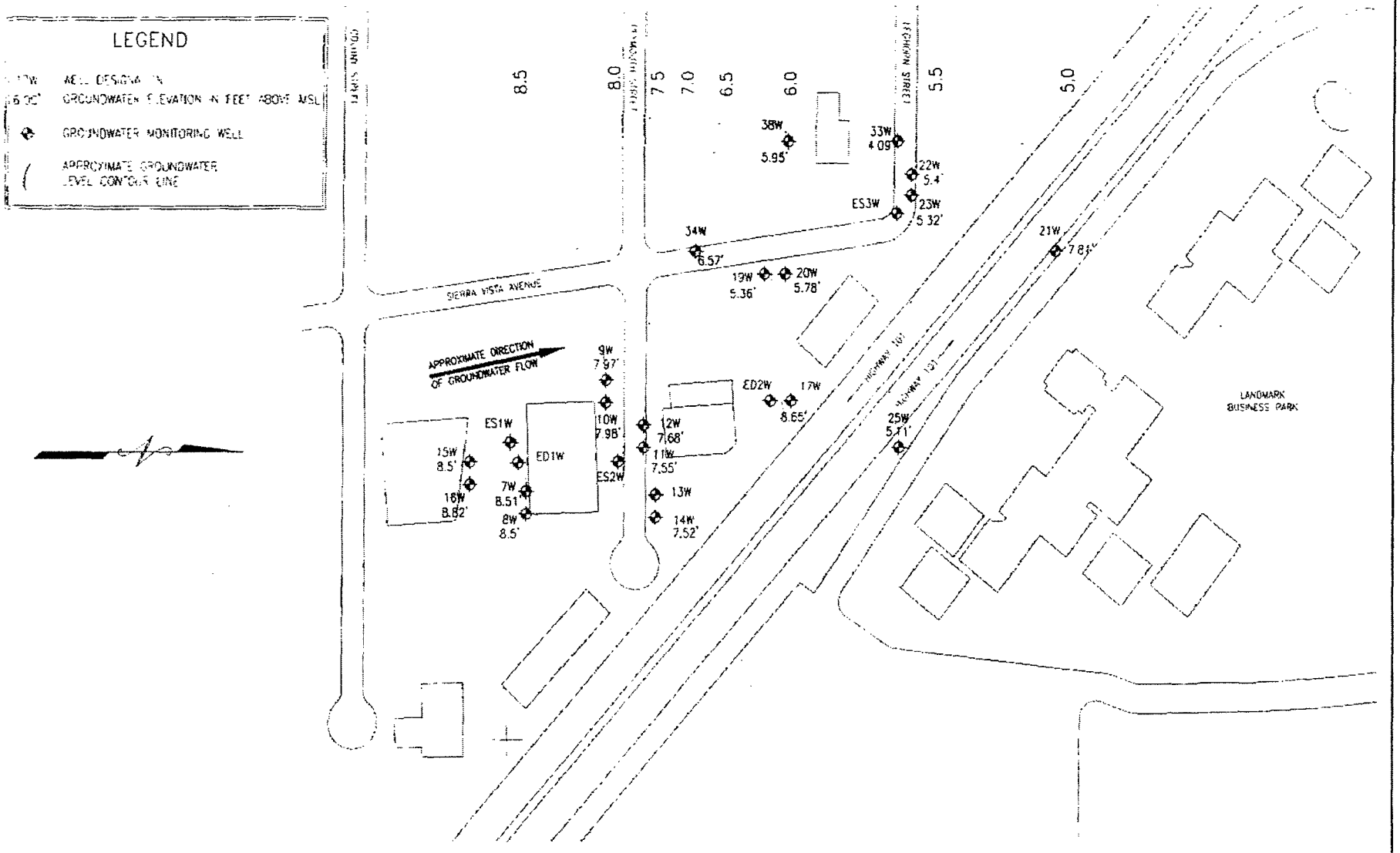
CSS ENVIRONMENTAL SERVICES, INC.

WELL LOCATION MAP

FORMER CTS-PRINTEX FACILITY
MOUNTAIN VIEW, CALIFORNIA

FIGURE 2

JOB NUMBER	DATE	DRAWING	BY	REVISED
6268	10/04	6268-2	CSS	10/04



SCALE

FEET 0 250 FEET

CSS ENVIRONMENTAL SERVICES, INC.

GROUNDWATER ELEVATIONS AND CONTOURS
DECEMBER 2004
FORMER CTS-PRINTEX FACILITY
MOUNTAIN VIEW, CALIFORNIA

PLATE 2

JOB NUMBER	DATE	DRAWING	BY	REVISED
3500	12/04	GWL P3	FLR	11/00

LEGEND

10W WELL DESIGNATION

GROUNDWATER MONITORING WELLS

◆ 10-20 feet

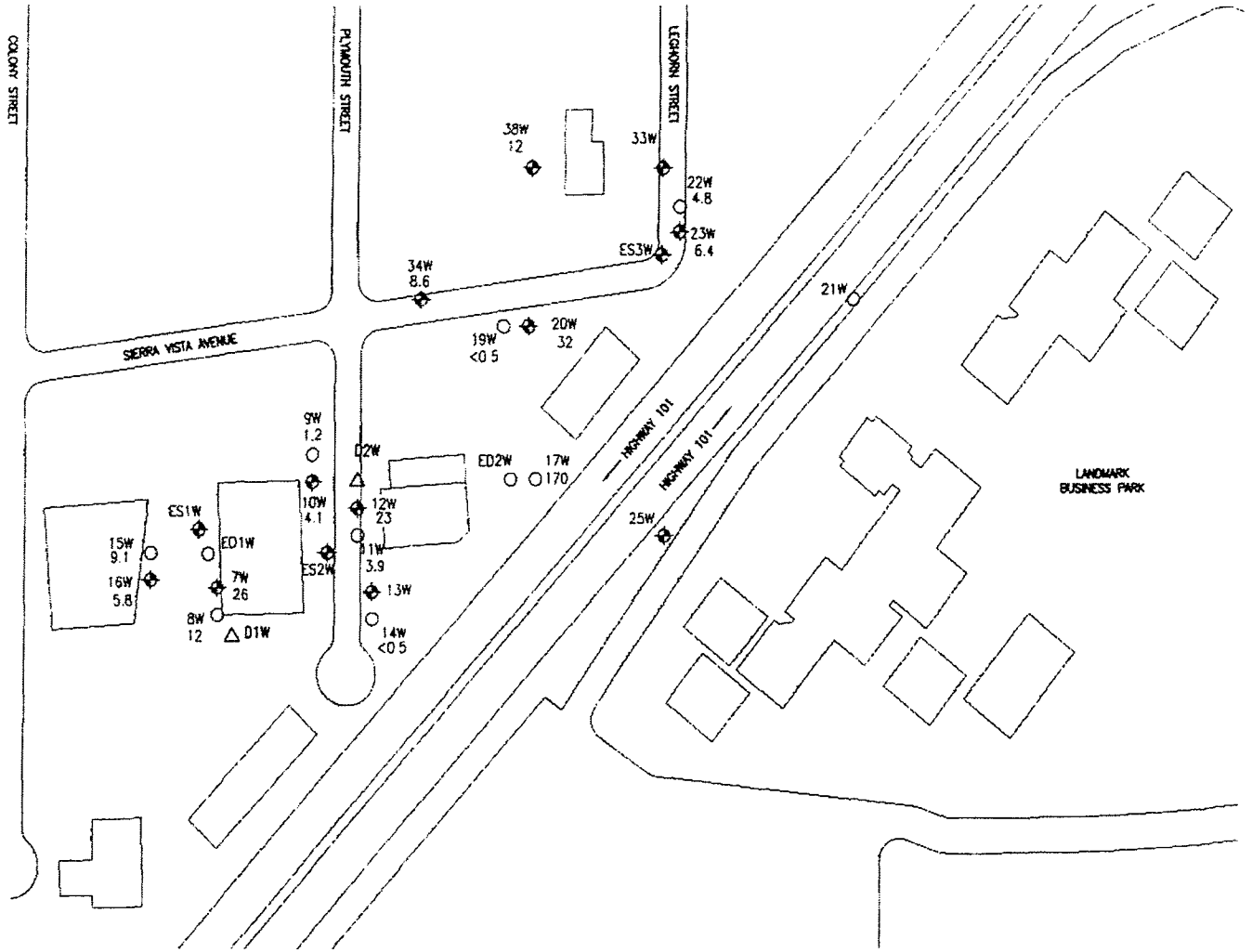
○ 30-40 feet

△ Deep 75 feet

DRINKING WATER ACTION LEVEL: 5.0 ug/L

NO CONCENTRATION INDICATES WELL NOT SAMPLED

WELLS SAMPLED DEC 2004



SCALE

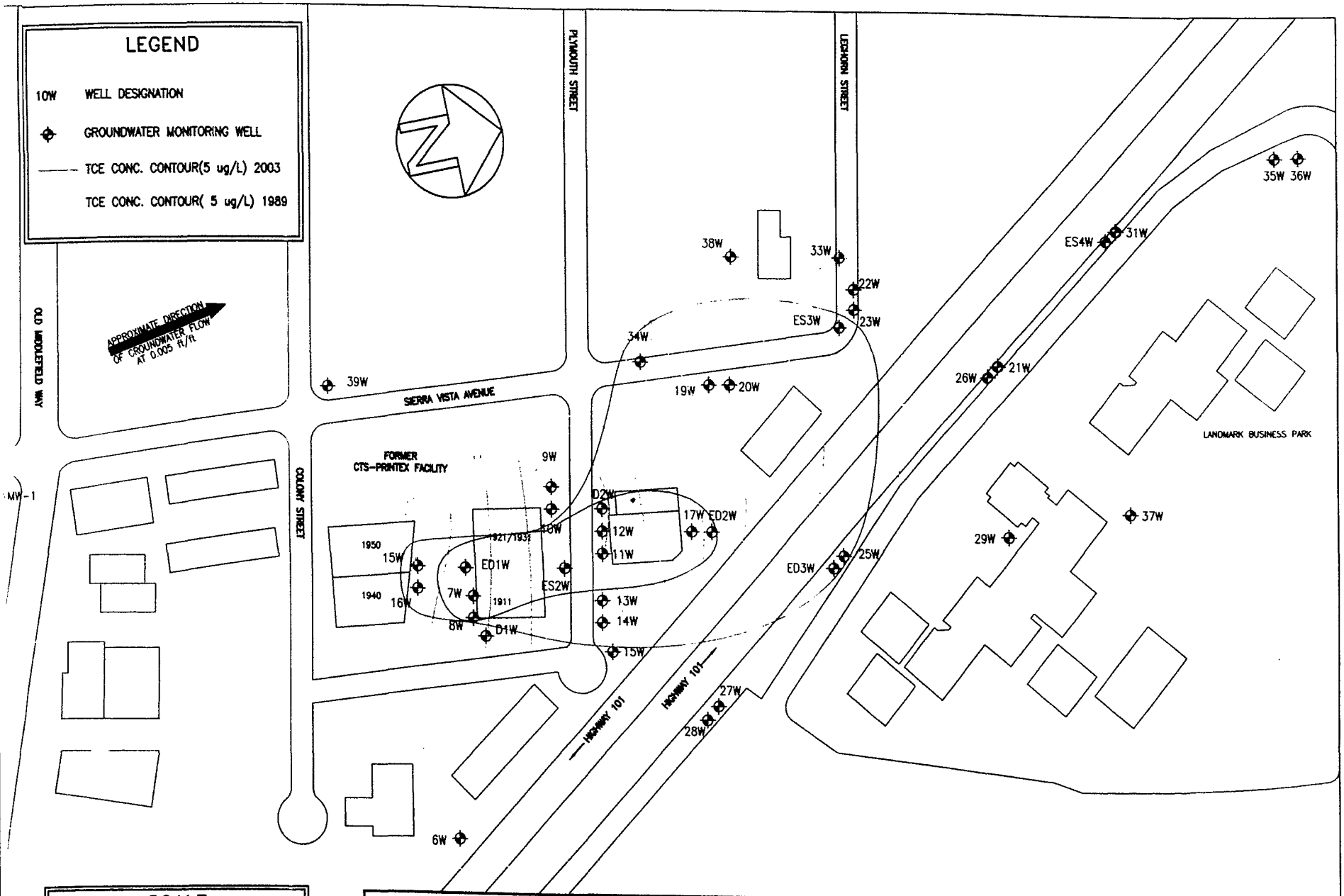
FEET 0 250 FEET

CSS ENVIRONMENTAL SERVICES, INC.

GROUNDWATER TCE CONCENTRATIONS
10-20 FOOT & 30-40 FOOT ZONE
FORMER CTS-PRINTEX FACILITY
MOUNTAIN VIEW, CALIFORNIA

JOB NUMBER	DATE	DRAWING	BY	REVISED
3500	1/99	TCE P4	FLR/BED	12/04

PLATE 3



CSS

CSS ENVIRONMENTAL SERVICES, INC.

GROUNDWATER TCE CONCENTRATIONS

FORMER CTS-PRINTEX FACILITY
MOUNTAIN VIEW, CALIFORNIA

FIGURE 4

JOB NUMBER	DATE	DRAWING	BY	REVISED
6268	10/04	6268-4	CSS	10/04

APPENDIX 2
Premimary Report – Title Search

CHICAGO TITLE COMPANY

PRELIMINARY REPORT

FIRST AMENDED

Dated as of: December 22, 2004 at 7:30 AM

Order No.: 115795 - KLK

Regarding: 1905-1931 Plymouth St & 1940 Colony St
Mountain View, California

CHICAGO TITLE COMPANY hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a Policy or Policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception in Schedule B or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said Policy forms.

The printed Exceptions and Exclusions from the coverage of said Policy or Policies are set forth in the attached list. Copies of the Policy forms are available upon request.

Please read the exceptions shown or referred to in Schedule B and the exceptions and exclusions set forth in the attached list of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered. It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

THIS REPORT (AND ANY SUPPLEMENTS OR AMENDMENTS HERETO) IS ISSUED SOLELY FOR THE PURPOSE OF FACILITATING THE ISSUANCE OF A POLICY OF TITLE INSURANCE AND NO LIABILITY IS ASSUMED HEREBY. IF IT IS DESIRED THAT LIABILITY BE ASSUMED PRIOR TO THE ISSUANCE OF A POLICY OF TITLE INSURANCE, A BINDER OR COMMITMENT SHOULD BE REQUESTED.

The form of policy of title insurance contemplated by this report is:

ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE (10-17-98)

Visit Us On The Web: westerndivision.ctt.com

Title Department:

CHICAGO TITLE COMPANY
110 West Taylor Street
San Jose, California 95110
(408) 292-4212

Mark Clayton

Escrow Department:

CHICAGO TITLE COMPANY
437 Lytton Avenue
Palo Alto, California 94301
(650) 324-1984 fax: (650) 327-7918

Kathryn L. Kelly
ESCROW OFFICER

SCHEDULE A

Order No: 115795 MJC Your Ref:

1. The estate or interest in the land hereinafter described or referred to covered by this report is:

A FEE

2. Title to said estate or interest at the date hereof is vested in:

Nearon Enterprises, LLC A California Limited Liability Company, as to Parcels One, Two and Three and ADN Corporation, a California Corporation, as to Parcel Four

3. The land referred to in this report is situated in the State of California, County of SANTA CLARA and is described as follows:

SEE ATTACHED DESCRIPTION

Order No: 115795 -MJC

1

DESCRIPTION

All that certain Real Property in the City of Mountain View, County of Santa Clara, State of California, described as follows:

Parcel One:

All of Parcel "A", as said parcel is shown upon that certain map entitled, "Amended Parcel Map, Being a Resubdivision of Lots 61, 62, 63 and 64, Sierra Vista Addition No. 3, Amends Parcel Map Filed April 3, 1970 in Book 266 of Maps, Page 18...", which map was filed for record on August 26, 1970 in Book 272 of Maps, at Page 35.

Parcel Two:

Lot 64, Map of Sierra Vista Addition No. 3, as shown on a Map recorded in Book W, Page 40 of Maps, Records of Santa Clara County, California.

Excepting therefrom that portion thereof conveyed to The City of Mountain View by Deed Recorded February 23, 1971 in Book 9228, Page 227, Official Records, and being more particularly described as follows:

A portion of Lot 64 as shown upon that certain Map entitled "Sierra Vista Addition No. 3" which Map was filed for record in the Office of the Recorder of the County of Santa Clara on April 2, 1928 in Book W of Maps at Page 40 and more particularly described as follows:

Beginning at the intersection of the prolongation of the Westerly line of said Lot 64 with the centerline of Plymouth Street as said street is shown upon the aforesaid Map;

thence South 85°44' East, along said centerline of Plymouth Street, 150.00 feet to the prolongation of the Easterly line of said Lot 64;

thence South 06°37' East along said prolongation of the Easterly line and along the Easterly line of said Lot 64, 35.64 feet;

thence North 85°44' West, parallel to said centerline of Plymouth Street and distant therefrom 35.00 feet measured perpendicularly a distance of 150.00 feet to the Westerly line of said Lot 64;

thence North 06°37' West, along said Westerly line and the prolongation thereof of said Lot 64, a distance of 35.64 feet to the Point of Beginning.

PARCEL THREE:

All of Parcel "B", as shown upon that certain Map entitled, "Amended Parcel Map being a Resubdivision of Portions of Lots 61, 62, 63 and 64, Sierra Vista Addition No. 3 amends Parcel Map filed April 3, 1970 in Book 266 of Maps, Page 18, Santa Clara Co. Records", which map was filed for record in the Office of the Recorder of the County of Santa Clara, State of California, on August 16, 1970 in Book 272 of Maps, at Page 35.

DESCRIPTION

PARCEL FOUR:

All of Parcel 1, as shown upon that certain Map entitled, "Parcel Map combining Lots 67 and 68, Sierra Vista Addition No. 3", which Map was filed for record in the Office of the Recorder of the County of Santa Clara, State of California, on October 31, 1972 in Book 311 of Maps, at Page 30.

SCHEDULE B

Order No: 115795 MJC Your Ref:

At the date hereof exceptions to coverage in addition to the printed Exceptions and Exclusions in the policy form designated on the face page of this Report would be as follows:

BN 1. General and Special Taxes and Assessments, if any, for the fiscal year 2004-2005

Assessment No.: 153-03-011
Code No.: 05-010
First Installment: $7,348.19, Paid
Second Installment: $7,348.19, Payable, but not yet due
Assessed Valuation Of
Personal Property: NONE
Homeowners Exemption: $None Shown

BB Said matter affects: Parcel One

BO 2. General and Special Taxes and Assessments, if any, for the fiscal year 2004-2005

Assessment No.: 153-03-010
Code No.: 05-010
First Installment: $7,308.04, Paid
Second Installment: $7,308.04, Payable, but not yet due
Assessed Valuation Of
Personal Property: NONE
Homeowners Exemption: $None Shown

BD Said matter affects: Parcel Two

BP 3. General and Special Taxes and Assessments, if any, for the fiscal year 2004-2005

Assessment No.: 153-03-012
Code No.: 05-010
First Installment: $3,268.52, Paid
Second Installment: $3,268.52, Payable, but not yet due
Assessed Valuation Of
Personal Property: NONE
Homeowners Exemption: $None Shown

BF Said matter affects: Parcel Three

BQ 4. General and Special Taxes and Assessments, if any, for the fiscal year

SCHEDULE B
(continued)

Order No: 115795 MJC Your Ref:

2004-2005

Assessment No.: 153-03-004
Code No.: 05-010
First Installment: $6,095.12, Paid
Second Installment: $6,095.12, Payable, but not yet due
Assessed Valuation Of
Personal Property: NONE
Homeowners Exemption: $None Shown

BH Said matter affects: Parcel Four

B 5. The Lien of Supplemental Taxes, if any, assessed pursuant to the provisions of Chapter 3.5, (commencing with Section 75) of the Revenue and Taxation Code of the State of California.

6. Right of the Public to use as a Roadway so much of said land, that lies within the boundary lines of Plymouth Street.

D Said matter affects: Parcel Two

E 7. Covenants, Conditions and Restrictions in the Deed.

Executed By: Nellie S. B. Rengstorff, a widow
Recorded: April 27, 1933 in Book 646 at Page 309 of Official Records

NOTE: Section 12956.1 of the Government Code provides the following: If this document contains any restriction based on race, color, religion, sex, familial status, marital status, disability, national origin, or ancestry, that restriction violates state and federal fair housing laws and is void, and may be removed pursuant to Section 12956.1 of the Government Code. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

F Said Covenants, Conditions and Restrictions do not provide for reversion of title in the event of a breach thereof.

G Covenants and restrictions, if any, based on race, color, religion, sex, handicap, familial status, or national origin are deemed deleted unless and only to the extent that said covenant (a) is exempt under Title 42, Section 3607 of the United States code or (b) relates to handicap but does not discriminate against handicapped persons.

SCHEDULE B
(continued)

Order No: 115795 MJC Your Ref:

H Said matter affects: Parcels One and Three

I 8. The fact that the ownership of said land does not include any right of ingress or egress to or from the highway contiguous thereto, said rights having been relinquished by deed

From:	Richard M. Apostle, a Single Man, and Lillian M. Oremus, also known as Lillian Oremus, a Single Woman
To:	State of California
Recorded:	January 29, 1958 in Book 3994 at Page 7 of Official Records

J Said matter affects: Parcel Three

K 9. An Agreement to Construct Land Development Improvements, upon the terms, covenants and conditions therein imposed which shall be binding upon and inure to the benefit of the successors in interest,

Executed By:	City of Mountain View, A Municipal Corporation and Title Insurance and Trust Company
Recorded:	September 5, 1969 in Book 8661 at Page 688 & 694 of Official Records

L Said matter affects: Parcel Two

M 10. An Agreement, affecting said land, for the purposes, stated herein, upon the terms, covenants and conditions referred to therein, between the parties named herein

For:	Standard City Improvement
Dated:	September 29, 1969
Executed By:	The City of Mountain View, A Municipal Corporaiton and A.D.N. Corporation
Recorded:	September 5, 1969 in Book 8661 at Page 701 of Official Records

N And Recorded: September 5, 1969 in Book 8661 at Page 707 of Official Records.

O Said matter affects: Parcel One

P 11. An Agreement, affecting said land, for the purposes, stated herein, upon the terms, covenants and conditions referred to therein, between the

SCHEDULE B
(continued)

Order No: 115795 MJC Your Ref:

parties named herein

For: To be comliance with the provisions of the Zoning Ordinance
Dated: December 19, 1969
Executed By: City of Mountain View, A Municipal Corporation and A.D. N. Corporation
Recorded: December 23, 1969 in Book 8779 at Page 441 of Official Records

q Said matter affects: Parcel Four

r 12. An Agreement, affecting said land, for the purposes, stated herein, upon the terms, covenants and conditions referred to therein, between the parties named herein

For: A public Street which does not meet with Standard Width
Dated: December 19, 1969
Executed By: City of Mountain View, A Municipal Corporation and A.D.N. Corporation
Recorded: December 23, 1969 in Book 8779 at Page 441 of Official Records

s Said matter affects: Parcel Four

t 13. An Agreement to Construct Land Development Improvements, upon the terms, covenants and conditions therein imposed which shall be binding upon and inure to the benefit of the successors in interest,

Executed By: City of Mountain View, A Municipal Corporation and A.D.N. Corporation
Recorded: January 13, 1970 in Book 8798 at Page 234 of Official Records

u Said matter affects: Parcels One and Three

v 14. An Agreement to Construct Land Development Improvements, upon the terms, covenants and conditions therein imposed which shall be binding upon and inure to the benefit of the successors in interest,

Executed By: City of Mountain View and A.D.N. Corporation
Recorded: January 13, 1970 in Book 8798 at Page 241 of Official Records

APPENDIX 3
CTS Printex – Indoor Air and Soil Gas Results

Table 1.
Indoor Air and Ambient Analytical Results
Former CTS Printex Site
Mountain View, CA

Sample Location*	Trichloroethene (TCE ug/m^3)
1921	0.58
1921 DUP	0.58
1931	0.57
Ambient	<0.19
Trip Blank	<0.11
Long-Term Risk-Based Health Criteria	
RWQCB ESLs	2.0
USEPA Region IX PRGs for 10^{-6} to 10^{-4} Risk	0.048 - 4.8
Short-Term Risk-Based Health Criteria	
ATSDR Acute	10,740
ATSDR Intermediate-Term	537
OEHHA REL	600

Notes:

* - Sample locations are shown on Plates 2, 3.

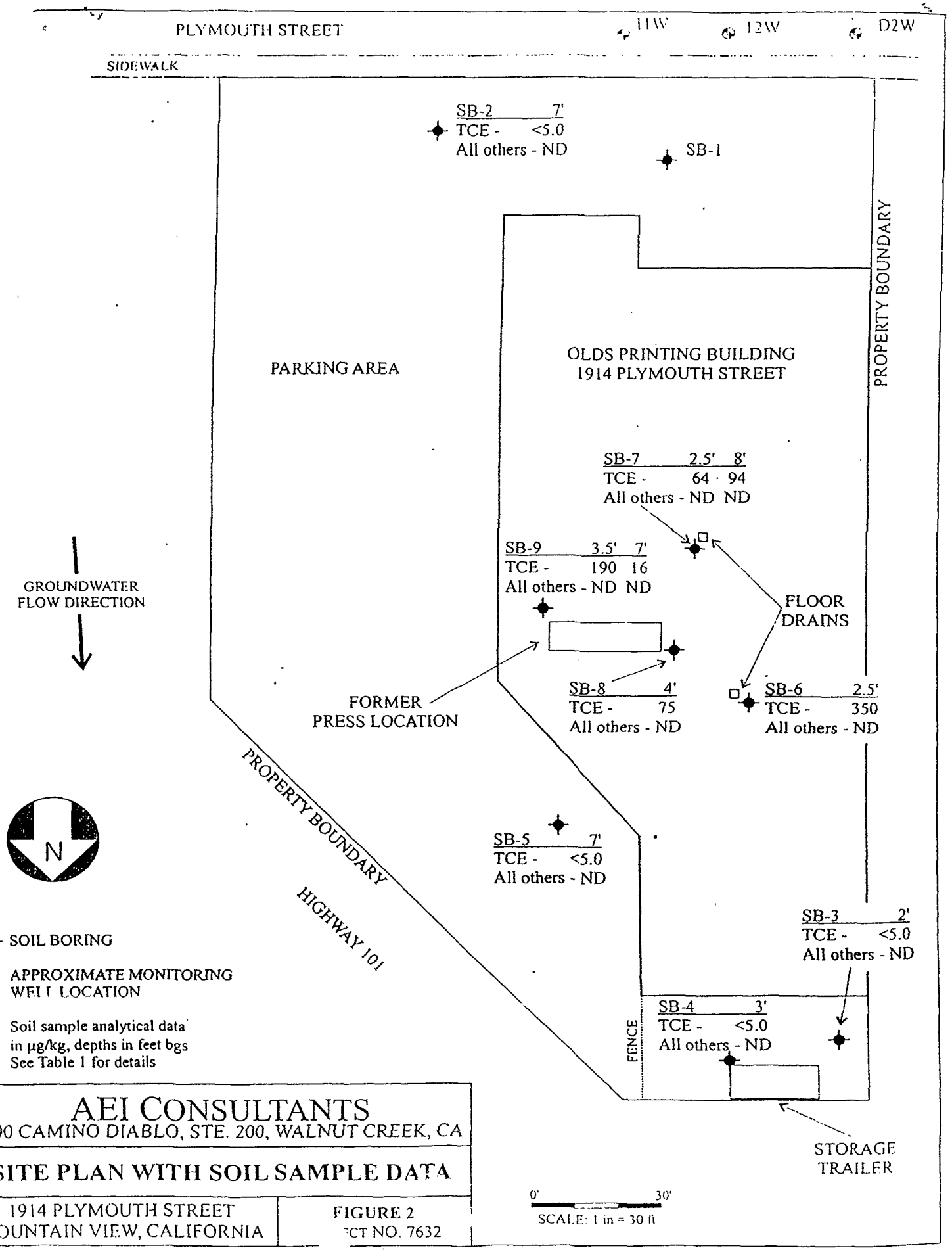
Table 2.
Active Soil Gas Analytical Results
Former CTS Printex Site
Mountain View, CA

Sample Location*	Trichloroethene (TCE ug/m^3)	2-propanol Tracer (ug/m^3)
SG-1	77	43
SG-2	<13	49
SG-3	840	36
SG-4	5,000	<30
SG-4 DUP	5,100	<29
Trip Blank	<2.7	<5.0
RWQCB ESLs for Soil Gas	4,100	

Notes:

* - Sample locations are shown on Plates 2, 3.

APPENDIX 4
Off-Site Investigation Results



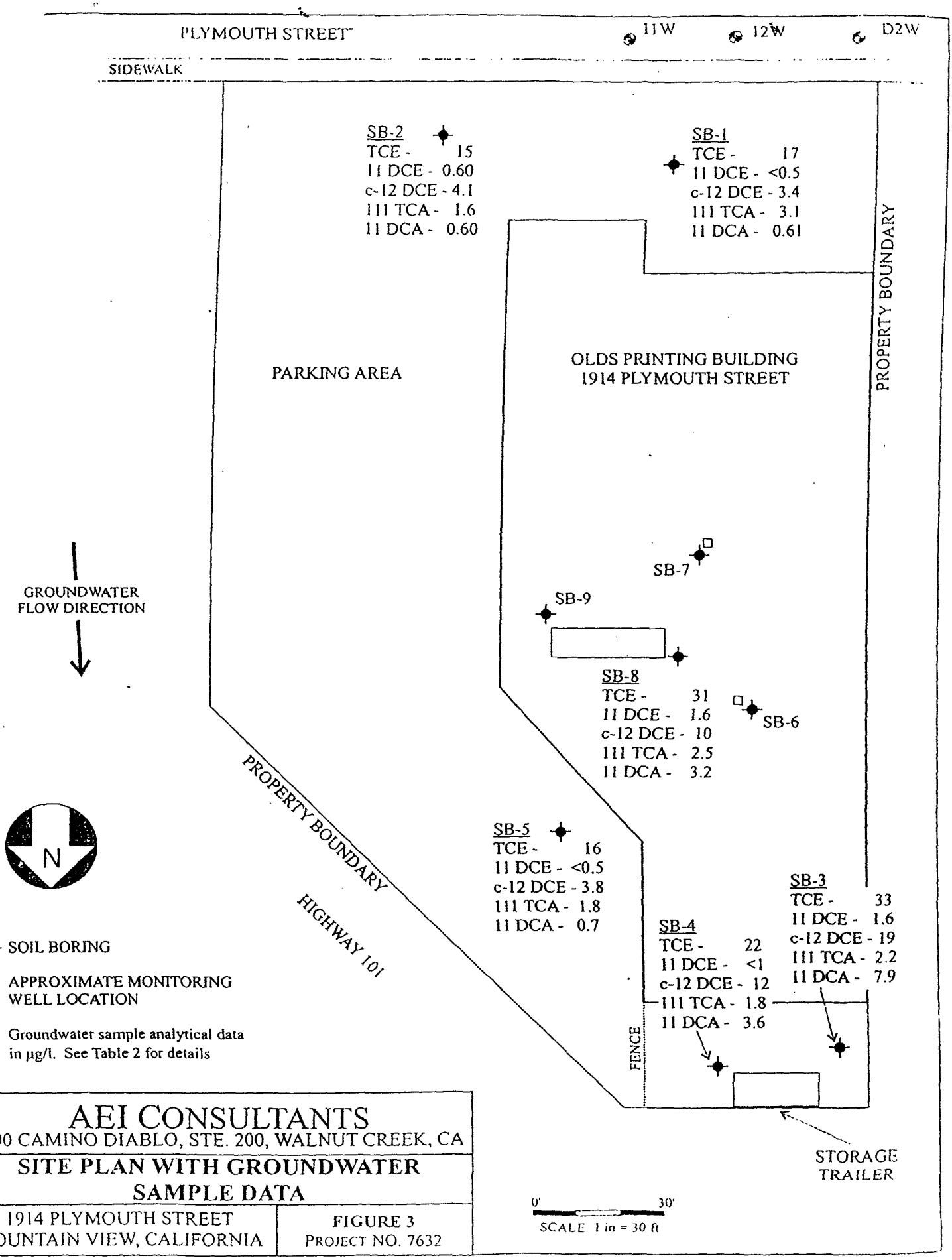
AEI CONSULTANTS

500 CAMINO DIABLO, STE. 200, WALNUT CREEK, CA

SITE PLAN WITH SOIL SAMPLE DATA

1914 PLYMOUTH STREET
MOUNTAIN VIEW, CALIFORNIA

FIGURE 2
PROJECT NO. 7632



AEI CONSULTANTS

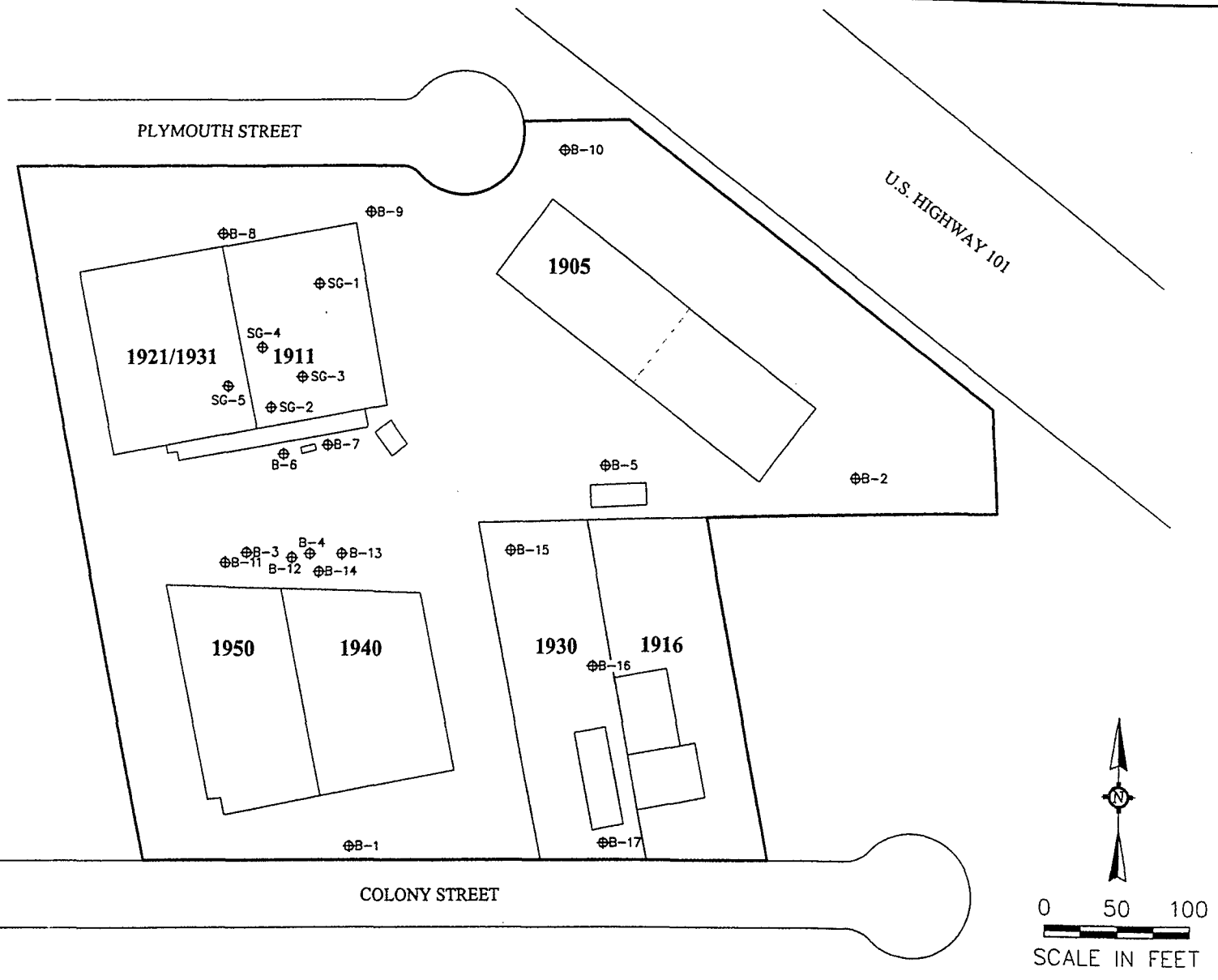
2500 CAMINO DIABLO, STE. 200, WALNUT CREEK, CA

SITE PLAN WITH GROUNDWATER SAMPLE DATA

1914 PLYMOUTH STREET
MOUNTAIN VIEW, CALIFORNIA

FIGURE 3
PROJECT NO. 7632

APPENDIX 5
Additional Soil Gas Sampling Results



Source: Aqua Terra Technologies, Inc (ATT), 1989. "Public Health and Environmental Evaluation Plan, Remedial Investigation/Feasibility Study," Former CTS Printex Facility, Mountain View CA. 31 May

GeoSyntec Consultants

PHASE II MARCH – APRIL 2005 SAMPLE LOCATIONS
FORMER PRINTEX SITE
MOUNTAIN VIEW, CALIFORNIA

FIGURE NO.	3
PROJECT NO.	WR0778-02
DATE:	23 May 2005

P:\CADD\Regis Homes\Plymouth and Colony\March – April – Sample Locations.dwg 5-23-05

Table 8
Soil Gas Analytical Results - March and April 2005
Former CTS Printex Site
Mountain View, California

	Soil Gas ESL [1]	B-4	B-6	B-7	B-8	SG-1	SG-2	SG-3	SG-4	SG-5	B-12	B-13	B-14
		5 ft bgs	5 ft bgs	5 ft bgs	5 ft bgs	1.7 ft bgs	5.3 ft bgs	5.8 ft bgs	6 ft bgs	2.5 ft bgs	6 ft bgs	5 ft bgs	6 ft bgs
Benzene	85	2.3	4.1	3.1	3.5	20	16	14	11	16	50	9.6	68
Chloroform	450	ND < 1.4	ND < 1.7	ND < 1.5	ND < 1.4	1.5	ND < 8.7	38	1.9	1.2	ND < 1.3	ND < 6.0	ND < 5.7
1,1-Dichloroethane	1,500	ND < 1.4	ND < 1.7	ND < 1.5	ND < 1.4	ND < 0.71	300	59	ND < 0.71	4.4	ND < 1.0	ND < 4.9	ND < 4.7
1,1-Dichloroethene	42,000	ND < 1.4	ND < 1.7	ND < 1.5	ND < 1.4	ND < 0.69	34	19	ND < 0.69	0.81	ND < 1.0	14	ND < 4.6
cis-1,2-Dichloroethene	7,300	ND < 1.4	5.2	ND < 1.5	ND < 1.4	14	91	ND < 12	ND < 0.69	4.1	2.1	1,300	ND < 4.6
trans-1,2-Dichloroethene	15,000	ND < 1.4	ND < 1.7	ND < 1.5	ND < 1.4	ND < 3.5	ND < 35	ND < 61	ND < 3.5	ND < 3.7	ND < 5.1	40	ND < 23
Tetrachloroethene	410	2.4	ND < 1.7	9.3	3.0	ND < 1.2	66	66	ND < 1.2	6.7	ND < 1.8	ND < 8.3	ND < 7.9
1,1,1-Trichloroethane	460,000	ND < 1.4	ND < 1.7	ND < 1.5	ND < 1.4	ND < 0.95	3,000	4,000	ND < 0.95	33	ND < 1.4	ND < 6.6	ND < 6.4
Trichloroethene	1,200	85	15	11	15	13	**3,300**	**4,200**	11	120	2.7	42	ND < 6.3
Vinyl Chloride	32	ND < 1.4	ND < 1.7	ND < 1.5	ND < 1.4	0.49	5.3	ND < 7.9	ND < 0.45	ND < 0.48	ND < 0.66	16	ND < 3.0

All units are micrograms per cubic meter ($\mu g/m^3$)
"ND" - not detected above listed reporting limit
Results in **bold** exceed screening level

1) RWQCB, Environmental Screening Levels for shallow soil gas screening levels for evaluation of potential vapor intrusion concerns, Interim Final, February 2005

APPENDIX 6
Site Photographs

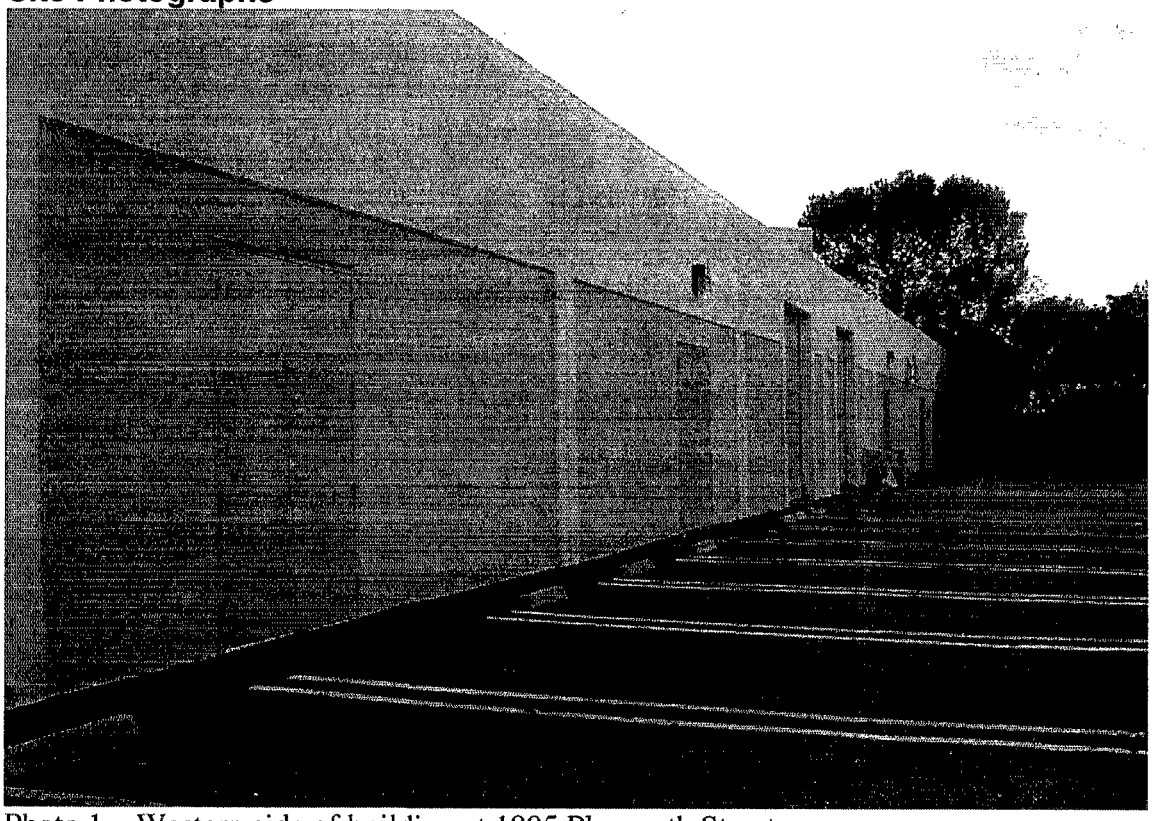


Photo 1 – Western side of building at 1905 Plymouth Street.

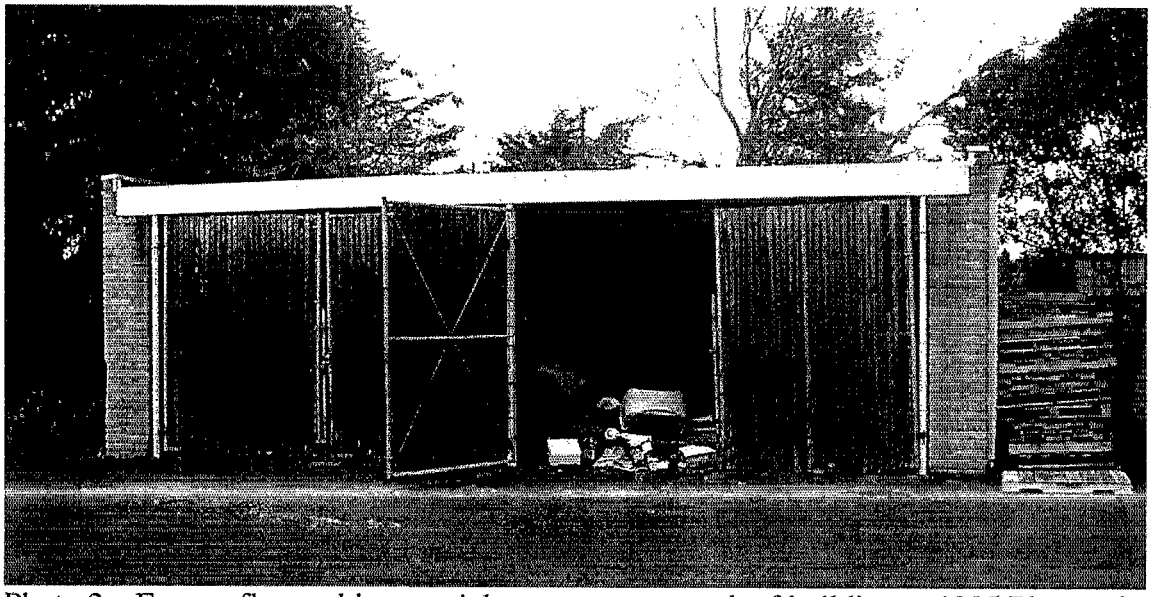


Photo 2 – Former flammable materials storage area south of building at 1905 Plymouth Street.

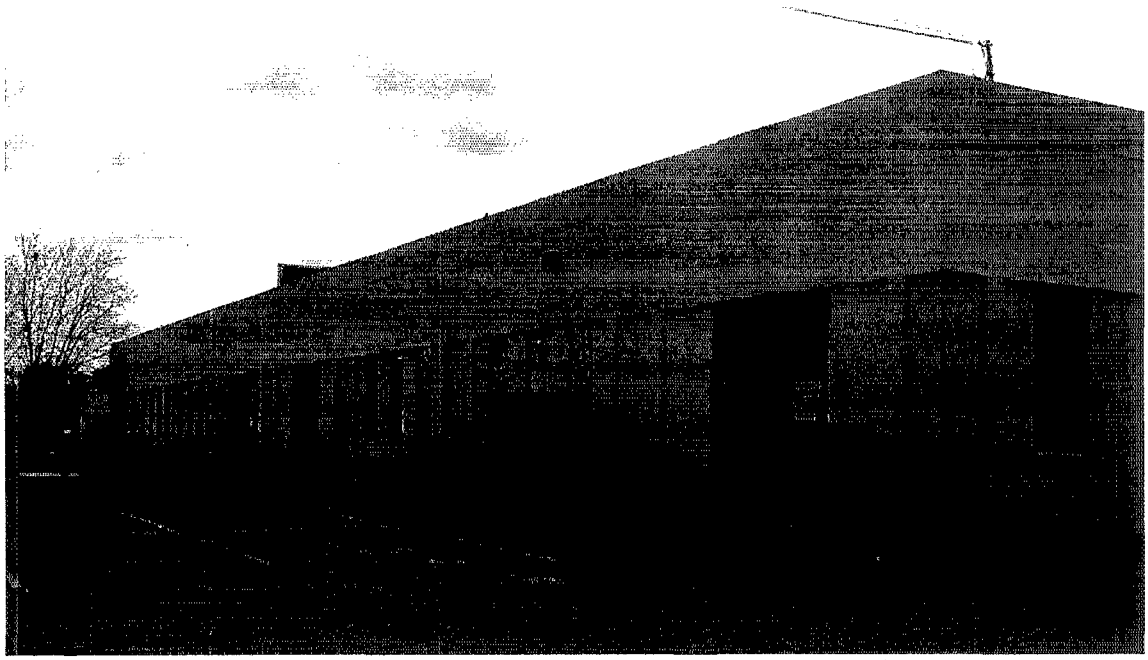


Photo 3 – Front of building at 1911/1921/1931 Plymouth Street, looking east.

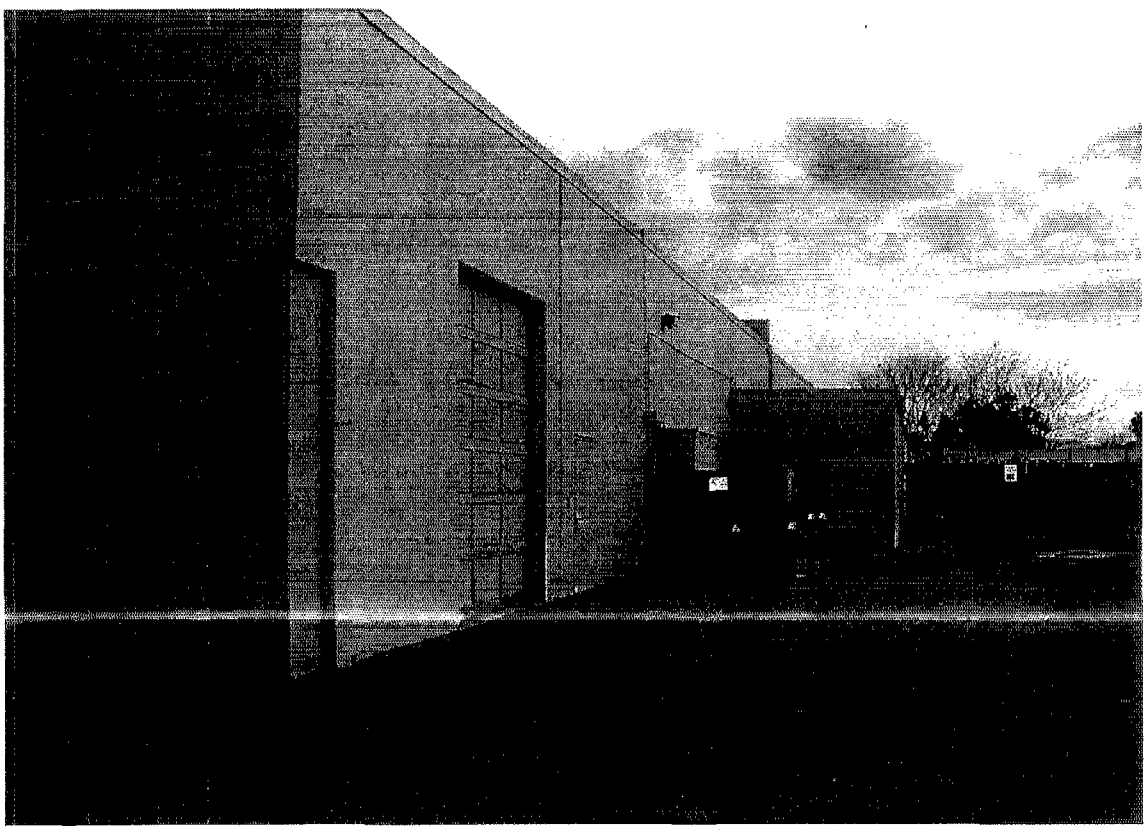


Photo 4 – Rear of building at 1911/1921/1931 Plymouth Street, looking east.

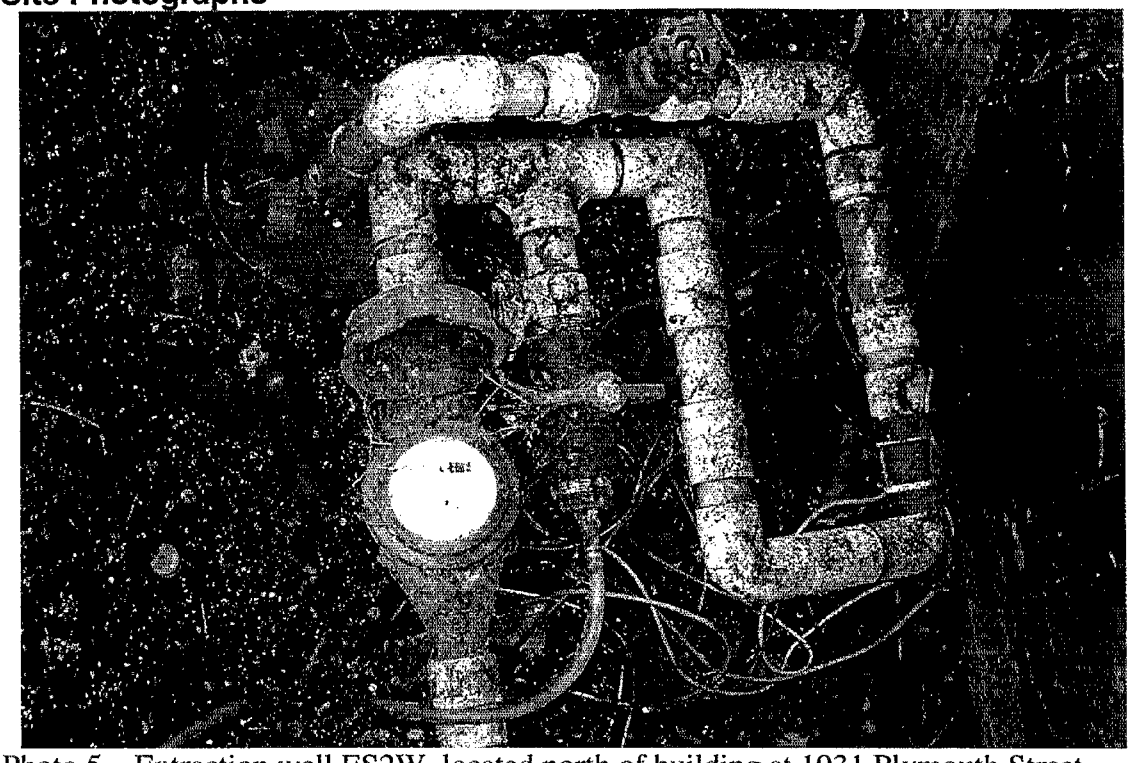


Photo 5 – Extraction well ES2W, located north of building at 1931 Plymouth Street.

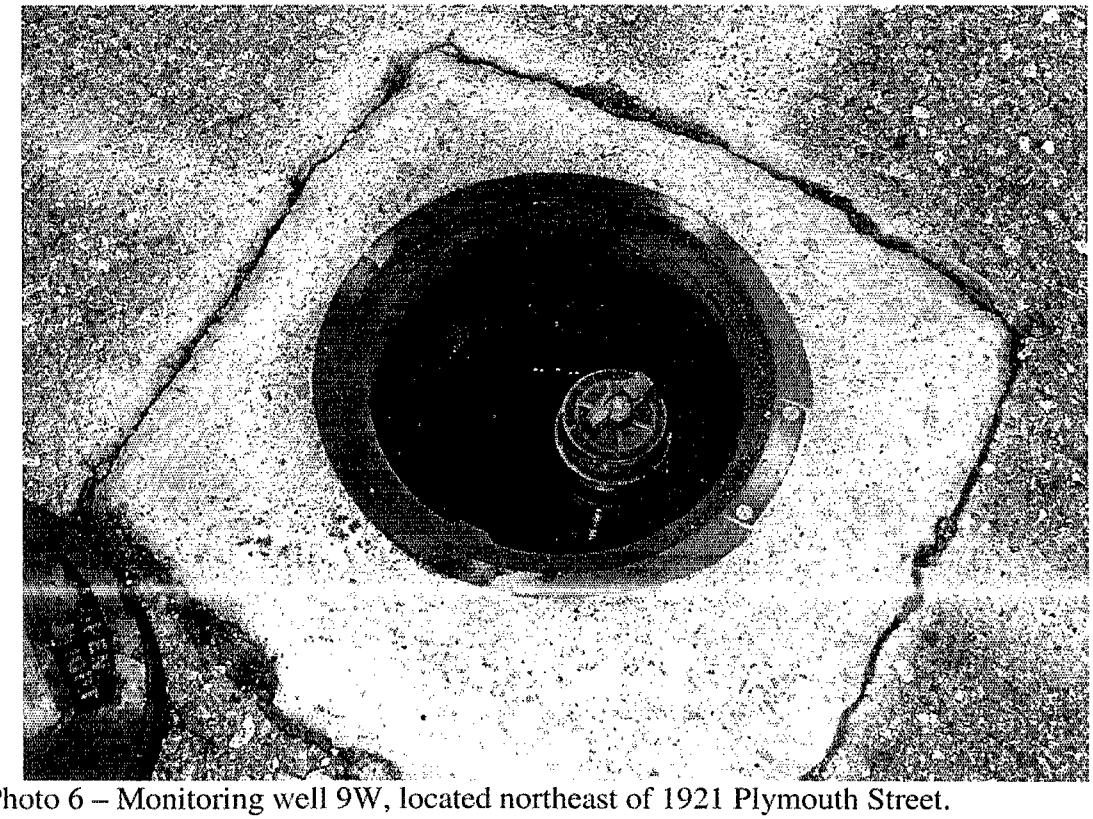


Photo 6 – Monitoring well 9W, located northeast of 1921 Plymouth Street.

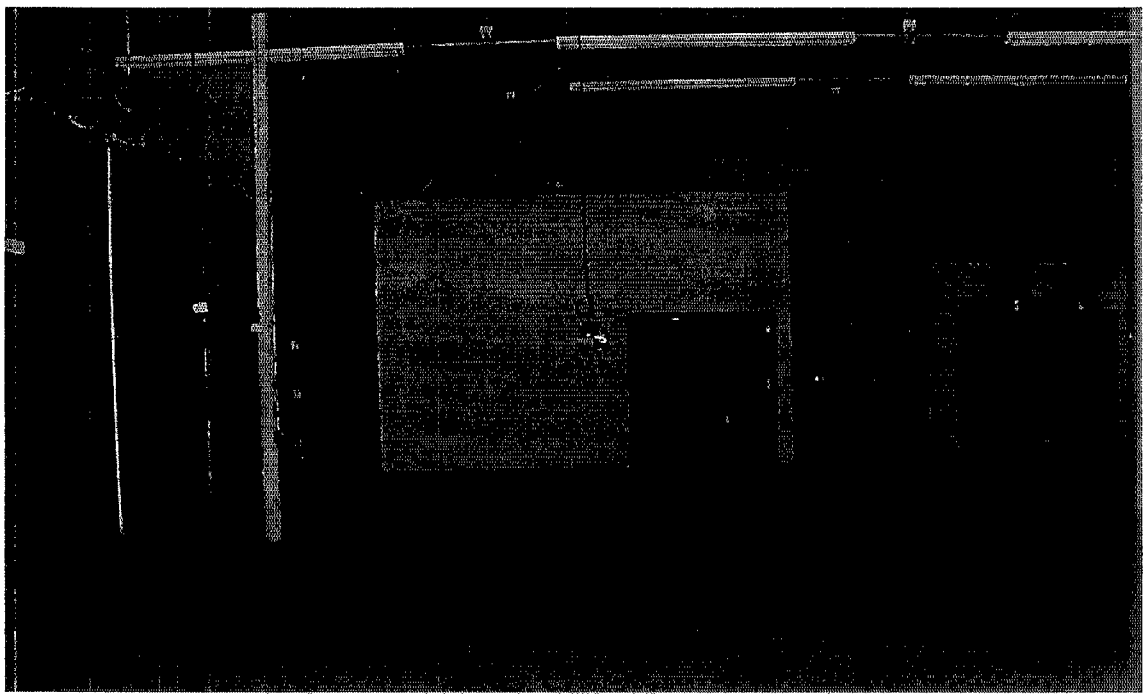


Photo 7 – Interior warehouse in southern portion of the building at 1921/1931 Plymouth Street.

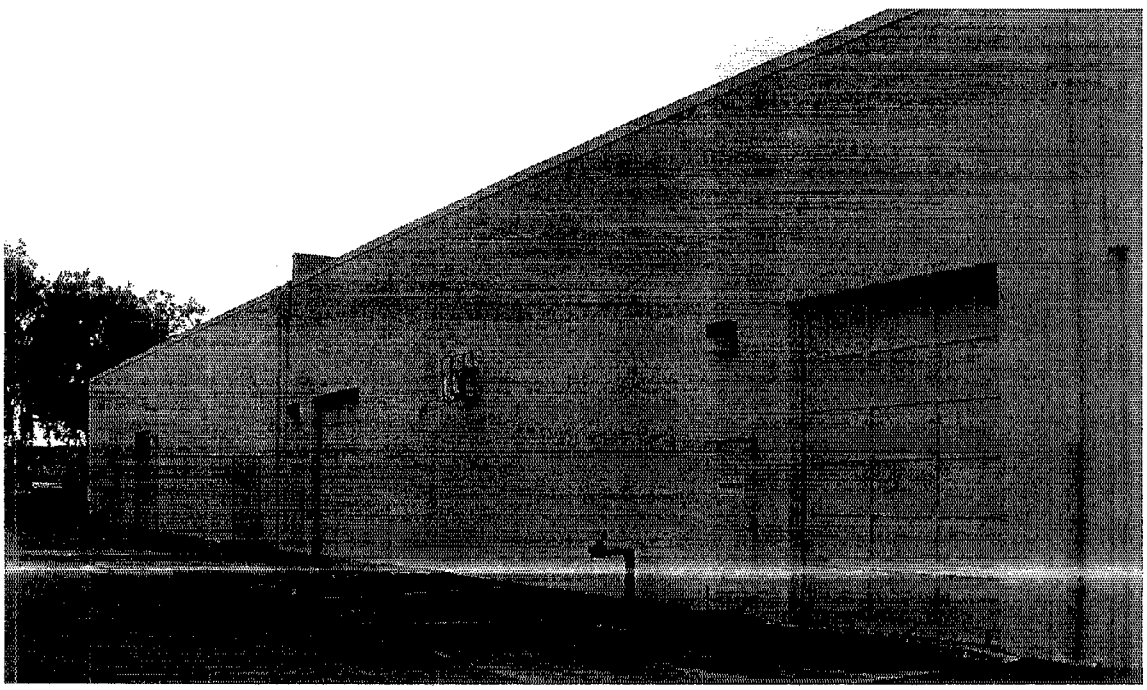


Photo 8 – Building at 1940/1950 Colony Street, looking east.

Photo 9 – Truck and trailers located in the northwest corner of the parking lot at 1940 and 1950 Colony Street.

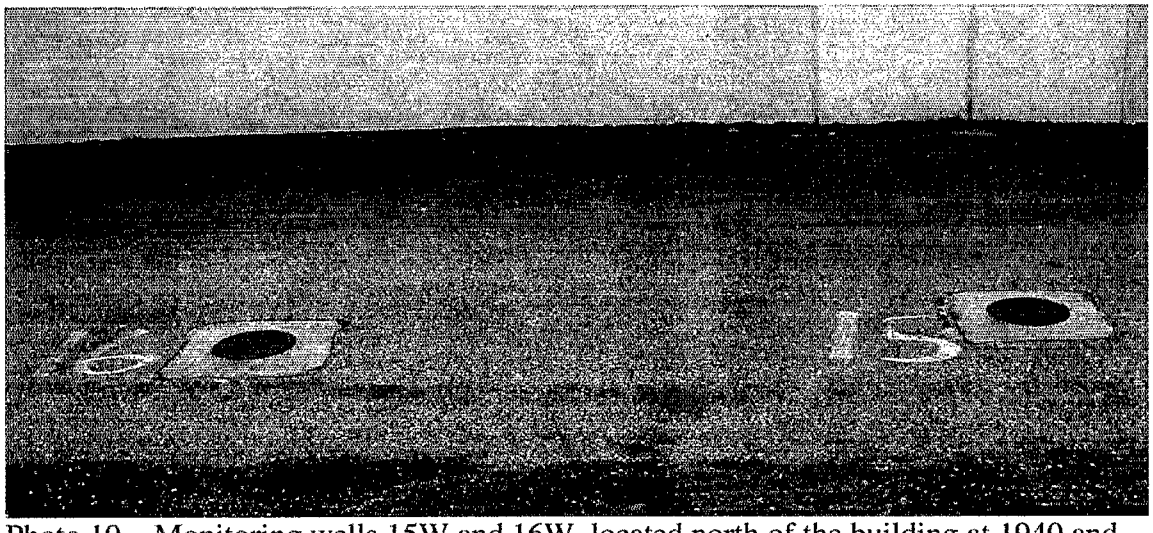


Photo 10 – Monitoring wells 15W and 16W, located north of the building at 1940 and 1950 Colony Street.

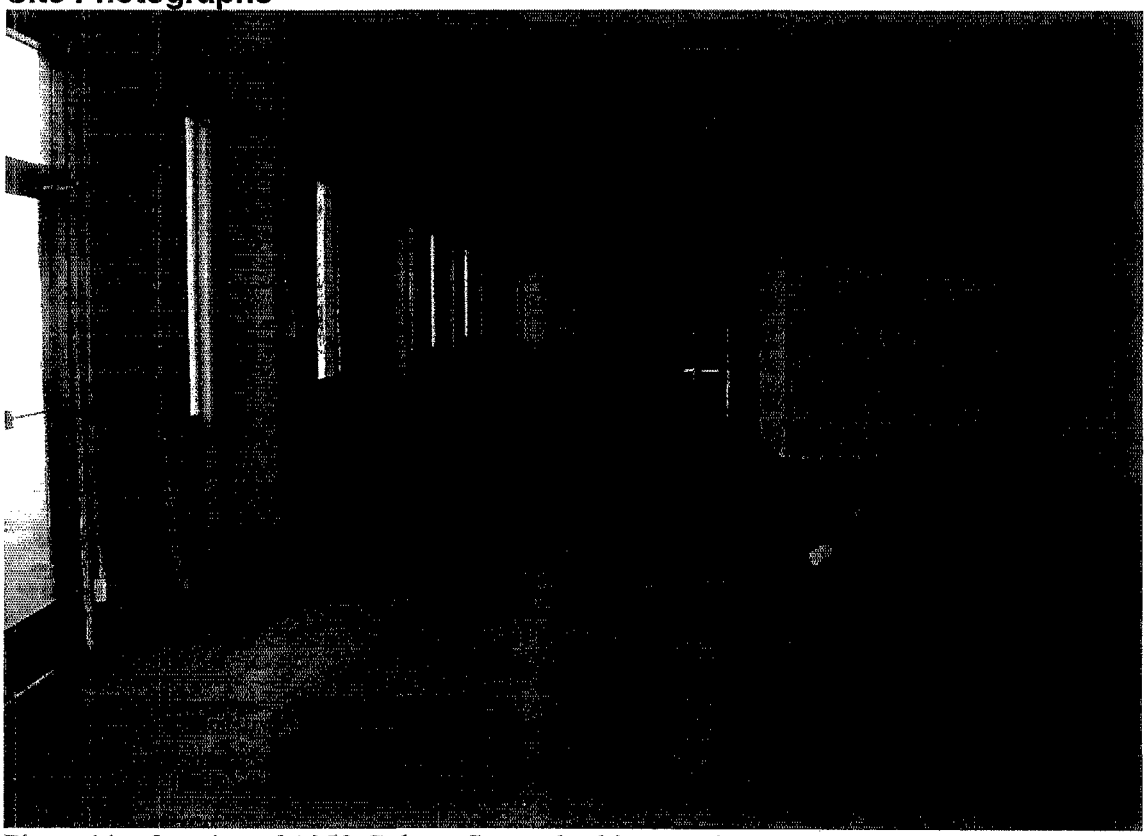


Photo 11 – Interior of 1950 Colony Street, looking north.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

September 30, 2005

Mr. Bruce Wolfe
Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

RE: EPA Concurrence - Final Second Five-Year Review Report for the CTS Printex Superfund Site, Mountain View, California, dated September 2005

Dear Mr. Wolfe:

The U.S. Environmental Protection Agency (EPA) has reviewed the Second Five Year Review Report for the CTS Printex Site 1905, 1911, 1921, and 1931 Plymouth Street and 1904, 1940 and 1950 Colony Street in Mountain View, California, prepared by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), dated September 2005. This Five-Year Review was conducted as a matter of policy because cleanup will take more than five years to complete (see OSWER No. 9355.7-03B-P, *Comprehensive Five-Year Review Guidance*, June 2001. The review addresses remedial actions taken pursuant to the June 1991 Record of Decision (ROD) for the site.

EPA concurs with this Five-Year Review Report's findings and protectiveness statement that the remedy at the CTS Printex site currently protects human health and the environment. Contaminant concentrations in the groundwater have been reduced throughout the plume, but still remain above cleanup levels. The effectiveness of the remedy should be re-evaluated, as provided in the ROD, and other cleanup technologies to expedite mass removal and cleanup time should be evaluated.

The groundwater exposure pathway that could result in unacceptable risks is being controlled by the deed restriction in place that prohibits groundwater use as required by the RWQCB Final Site Cleanup Requirements. Therefore, it is recommended that the ROD be modified to include this institutional control as part of the Site remedy.

CTS Corporation with RWQCB acceptance ceased groundwater extraction in 1996, based on the primary chemicals of concern in groundwater reaching asymptotic levels. The extraction system remains shut off. Contaminant concentrations rebounded in the vicinity of downgradient well W-17, but currently may be decreasing. Potential sources in the vicinity of well W-17 may be present and should be assessed and addressed.

Additionally, it has been demonstrated that the vapor intrusion pathway does not result in unacceptable indoor air risks at the current buildings for commercial indoor worker exposure. The property is currently under consideration to be re-developed to include residential buildings. If the land use at the property changes from the current commercial/industrial use to residential use, a comprehensive indoor air evaluation for residential use and a re-evaluation of the remedy selected in the ROD should be completed to ensure long-term protectiveness. Based on the outcome of these assessments, the ROD should be amended as necessary. The next Five-Year Review will be conducted in 2010.

We appreciate the opportunity to work with RWQCB staff on this Five-Year Review Report. If you have any questions, please feel free to contact Alana Lee of my staff at (415) 972-3141.

Sincerely,

Elizabeth Adams
Site Cleanup Branch Chief
Superfund Division